

**The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130**

**DEVAL L. PATRICK  
GOVERNOR**

**TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR**

**JUDYANN BIGBY, MD  
SECRETARY  
JOHN AUERBACH  
COMMISSIONER**

3/14/2012

Andrius Knasas  
Assistant District Attorney  
Suffolk County District Attorney's Office

Dear ADA Knasas

Enclosed is the information you requested in regards to items [REDACTED]

1. Curriculum Vitae for Hevis Lleshi and Kate Corbett
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples [REDACTED]

Hevis Lleshi was the custodial chemist and performed preliminary testing and net weight for these samples. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for these samples.

If you have any questions about these materials, please call me at the number below.

Sincerely,

Ms. Hevis Lleshi  
Chemist I  
Drug Analysis Laboratory  
Jamaica Plain, MA 02130  
(617) 983-6627

## Curriculum Vitae

Hevis Lleshi

### Education

Boston University School of Medicine – Master of Science, Forensic Science  
University of South Florida – Bachelor of Arts, Clinical Psychology

### Related Coursework

Forensic Chemistry • Forensic Toxicology • Forensic Pathology • Forensic DNA Analysis  
Organic / Analytical Chemistry • Forensic Biology • Biochemistry • Forensic Trace Evidence

### Employment

March, 2011 – Present  
Chemist I, Massachusetts Department of Public Health,  
Drug Analysis Laboratory

- Appointed Assistant Analyst by Assistant Commissioner of Public Health, June, 2011
- Responsible for the identification of substances to determine violation of harmful and narcotic drug laws of the Commonwealth of Massachusetts
- Trained in the use of complex analytical instrumentation for the purpose of forensic drug analysis
- Notary Public

### Additional Training and Laboratory Experience

- Completed ten-week training course conducted by Laboratory Senior Staff within the Department of Public Health, Drug Analysis Laboratory, 2011
- GC and GC/MS training with Restek, 2011
- Instrumental Forensic Chemistry/Toxicology Laboratory, Boston University, 2009
- Serology/Bloodstain Pattern Analysis Techniques, Boston University, 2009

Internship, MASSACHUSETTS STATE POLICE—MARINE SECTION, BOSTON, MA, 2009 – 2010

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### Associations

- American Academy of Forensic Sciences (AAFS)
- Boston University Forensic Science Society (BUFSS)

# Curriculum Vitae

Kate A. Corbett

## Education

### **Bachelor of Science Degree, CHEMISTRY May 2003**

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

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## Employment

### **Chemist II State Laboratory Institute (March 2008-Present)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

### **Chemist I State Laboratory Institute (2005-March 2008)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

### **Research Associate (September 2003 – August 2005)**

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

### **Intern (March 2003 – August 2003)**

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units



**DRUG RECEIPT**

CC #

## BOOKS

PAGE 4

**DESTRUCTION #** \_\_\_\_\_

District/Unit YVSF

Name & Rank of Arresting Officer McCarthy ID# 91907

ID# 91907

| DEFENDANT'S NAME | ADDRESS    | CITY       | STATE |
|------------------|------------|------------|-------|
| [REDACTED]       | [REDACTED] | [REDACTED] | MA    |
| [REDACTED]       | [REDACTED] | [REDACTED] | MA    |

To be completed by ECU personnel only

Name and Rank of Submitting Officer

ID# 9324

Date

8.2.11

ECU Control #

No. [REDACTED] Date Analyzed: 2/16/12  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]  
Amount: Subst: SUB  
No. Cont: 1 Cont: pb  
Date Rec'd: 08/02/2011 No. Analyzed:  
Gross Wt.: 2.25 Net Weight: 0.10g  
# Tests: 4  
• 26AC  
Prelim: Heroin (HLL) Findings: Heroin

No. [REDACTED] Date Analyzed: 2/16/12  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]  
Amount: Subst: SUB  
No. Cont: 1 Cont: pb  
Date Rec'd: 08/02/2011 No. Analyzed:  
Gross Wt.: 2.32 Net Weight: 0.48g  
# Tests: 6  
• 26AC  
Prelim: Cocaine (HLL) Findings: Cocaine

No. [REDACTED]

Date Analyzed: 3/1/12

City: Boston D.C.U. Police Dept.

Officer: P.O. Diana Lopez

Def: [REDACTED]

Amount: 7.0

No. Cont: 1 Cont: <sup>HU</sup> paper fold

Subst: TAB

Date Rec'd: 08/02/2011

No. Analyzed: 1

Gross Wt.: 5.80

Net Weight: 1.54g (8/4)

# Tests: 1

Prelim: Buprenorphine (HU)

Findings:

2CAC

Buprenorphine

# DRUG POWDER ANALYSIS FORM

SAMPLE # XXXXXXXXXXAGENCY BostonANALYST HLL

No. of samples tested: \_\_\_\_\_

Evidence Wt. OKPHYSICAL DESCRIPTION:Gross Wt ( ): 0.2293g

Gross Wt ( ): \_\_\_\_\_

One pb containing  
beige powder. One  
piece of paper also  
included in evidence  
bag.

Pkg. Wt: \_\_\_\_\_

Net Wt: 0.1052gPRELIMINARY TESTSSpot TestsCobalt  
Thiocyanate ( ) + blue / green

Marquis + purple

Froehde's + purple

Mecke's + green

Microcrystalline TestsGold  
Chloride \_\_\_\_\_

TLTA ( ) \_\_\_\_\_

OTHER TESTS

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PRELIMINARY TEST RESULTSRESULTS HeroinDATE 2/11/2012GC/MS CONFIRMATORY TESTRESULTS HeroinMS  
OPERATOR KACDATE 2/16/2012

# DRUG POWDER ANALYSIS FORM

SAMPLE #

AGENCY BostonANALYST HLL

No. of samples tested: \_\_\_\_\_

Evidence Wt. OKPHYSICAL DESCRIPTION:Gross Wt ( ): 0.6076g

Gross Wt ( ): \_\_\_\_\_

One pb containing  
white powder, double  
bagged.

Pkg. Wt: \_\_\_\_\_

Net Wt: 0.4846gPRELIMINARY TESTSSpot TestsCobalt  
Thiocyanate ( ) + blue

Marquis \_\_\_\_\_

Froehde's \_\_\_\_\_

Mecke's \_\_\_\_\_

Microcrystalline TestsGold  
Chloride \_\_\_\_\_ +

TLTA ( ) +

OTHER TESTS

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

PRELIMINARY TEST RESULTSRESULTS CocaineDATE 2/10/2012GC/MS CONFIRMATORY TESTRESULTS CocaineMS  
OPERATOR KACDATE 2/16/2012

# DRUG POWDER ANALYSIS FORM

SAMPLE #

AGENCY

Boston

ANALYST

HLL

No. of samples tested: 1

Evidence Wt

OK

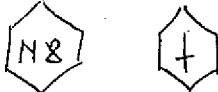
PHYSICAL DESCRIPTION:

Gross Wt (4): 2.0515 g

Gross Wt ( ): \_\_\_\_\_

Four orange hexagonal Pkg. Wt: \_\_\_\_\_  
imprinted tablets Net Wt: (4) 1.5471 g  
in one paper fold.  
One tablet tested.

Micromedex:  
Buprenorphine - 8 mg



\* Evidence bag not sealed on one side, (initials side)

PRELIMINARY TESTSSpot TestsCobalt  
Thiocyanate ( ) \_\_\_\_\_

Marquis \_\_\_\_\_

Froehde's \_\_\_\_\_

Mecke's \_\_\_\_\_

Microcrystalline TestsGold  
Chloride \_\_\_\_\_

TLTA ( ) \_\_\_\_\_

OTHER TESTS

(A) + (L) +

PRELIMINARY TEST RESULTS

RESULTS Buprenorphine

DATE 2/25/2012

GC/MS CONFIRMATORY TEST

RESULTS Buprenorphine

MS  
OPERATOR KAC

DATE 3/11/2012

## Drug Information

**DRUG NAME:** SUBOXONE TABLET

**INGREDIENTS:** BUPRENORPHINE -- 8 MG  
NALOXONE -- 2 MG

**Color:** orange

**NDC:** 12496-1306-02

**Shape:** Six-sided

**Regulatory Status:** Schedule III

**Imprint:** N8 Sword Logo

**Availability:** United States

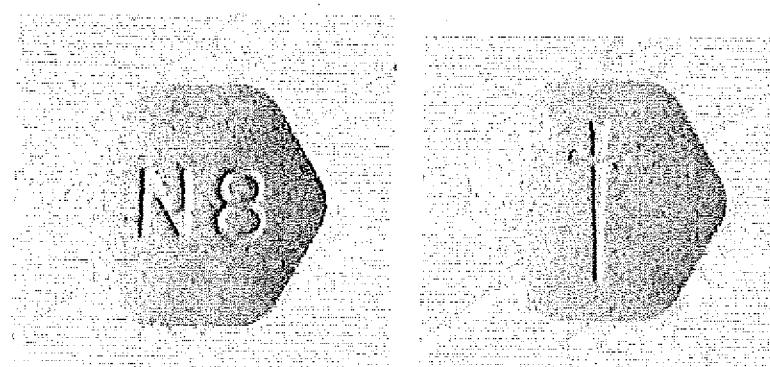
**Form:** Sublingual Tablet

**Product ID:** 6370996

**Available-Container-Size:** Bottle of 30

**Contact:** Reckitt Benckiser  
Pharmaceuticals

**AAPCC Code:** 200625 -  
Buprenorphine

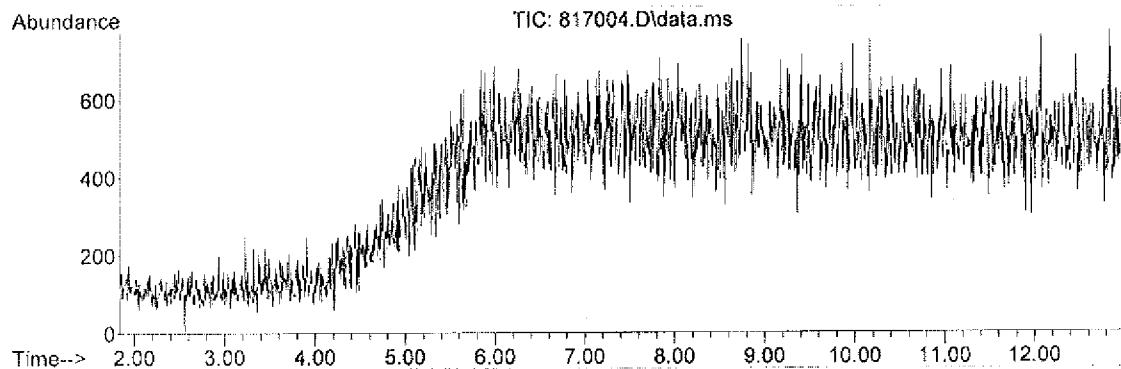


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✓KAC  
3/6/12

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Operator : KAC  
Date Acquired : 14 Feb 2012 14:50  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



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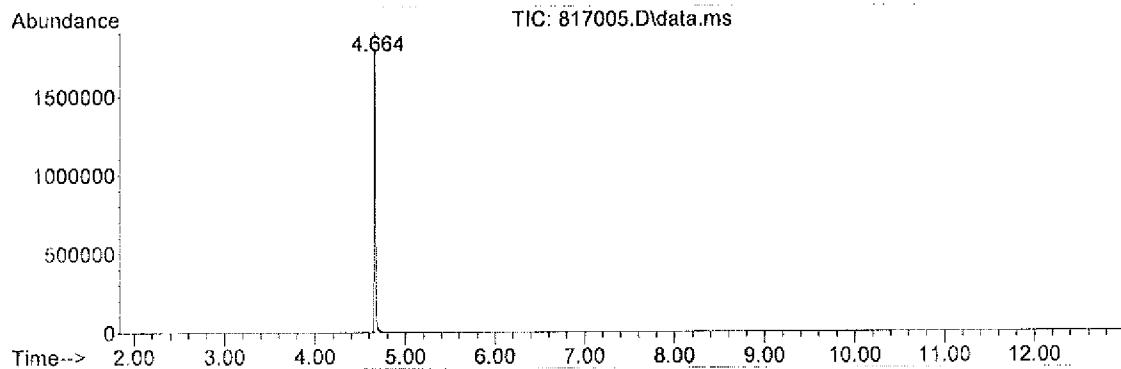
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\*\*\*NO INTEGRATED PEAKS\*\*\*

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Operator : KAC  
Date Acquired : 14 Feb 2012 15:06  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 5  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



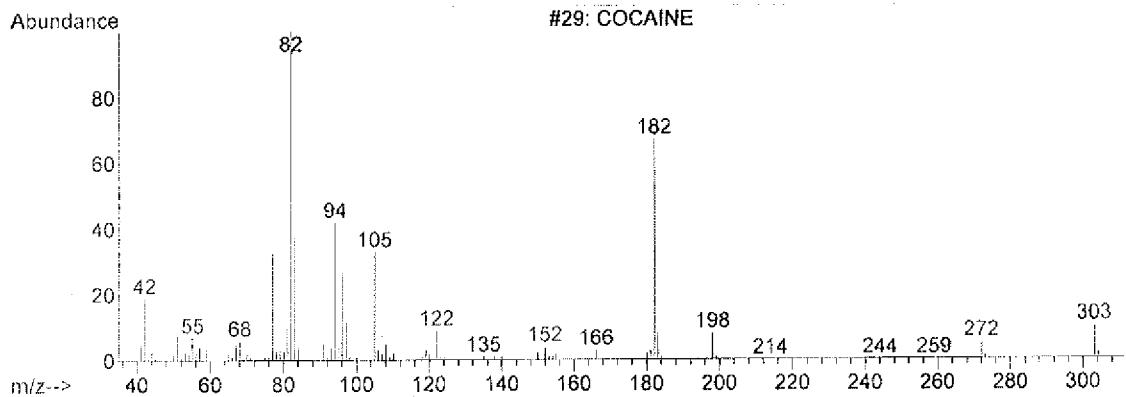
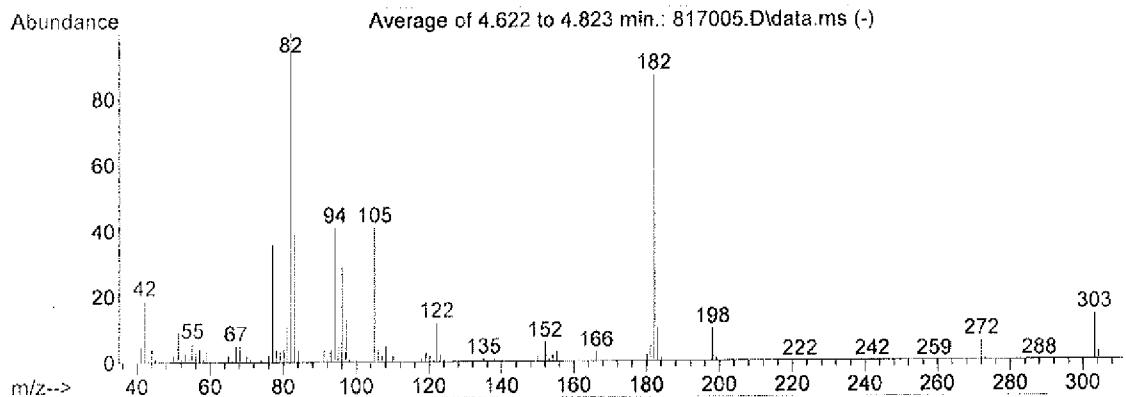
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## Information from Data File:

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Date Acquired : 14 Feb 2012 15:06  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 5  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 85  
C:\Database\NIST05a.L Minimum Quality: 85  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.66 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



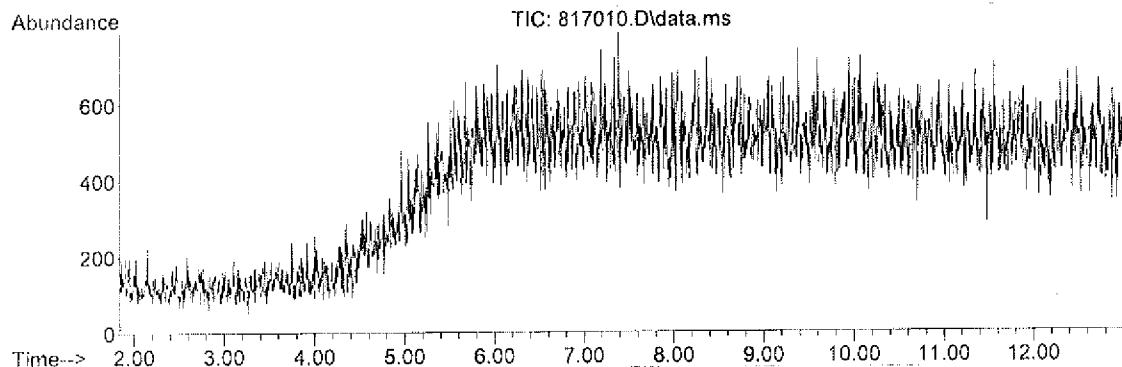
Area Percent / Library Search Report

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Operator : KAC  
Date Acquired : 14 Feb 2012 16:24  
Sample Name : BLANK  
Submitted by : HLL  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

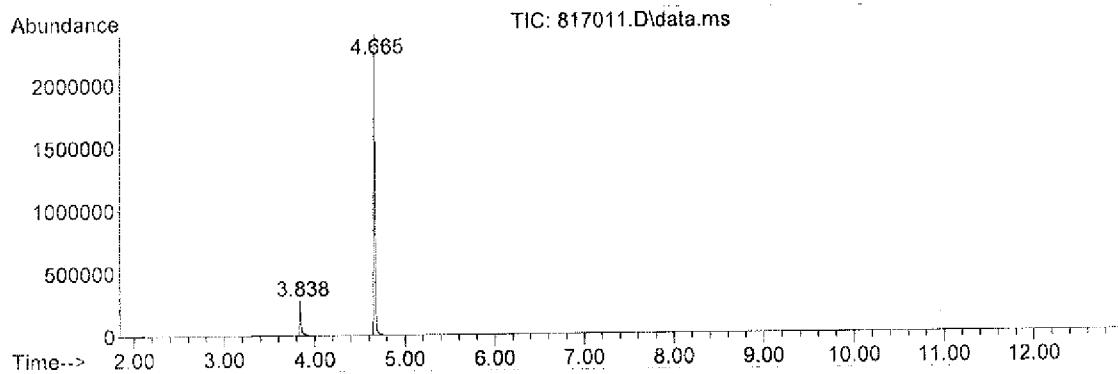
Area Percent / Library Search Report

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Operator : KAC  
Date Acquired : 14 Feb 2012 16:39  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 11  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 3.838     | 346608  | 12.76  | 14.62   |
| 4.665     | 2370029 | 87.24  | 100.00  |

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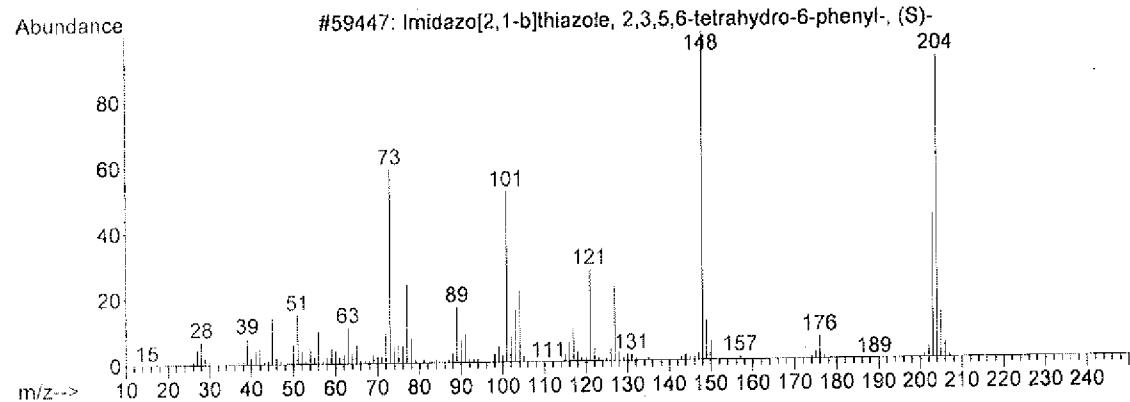
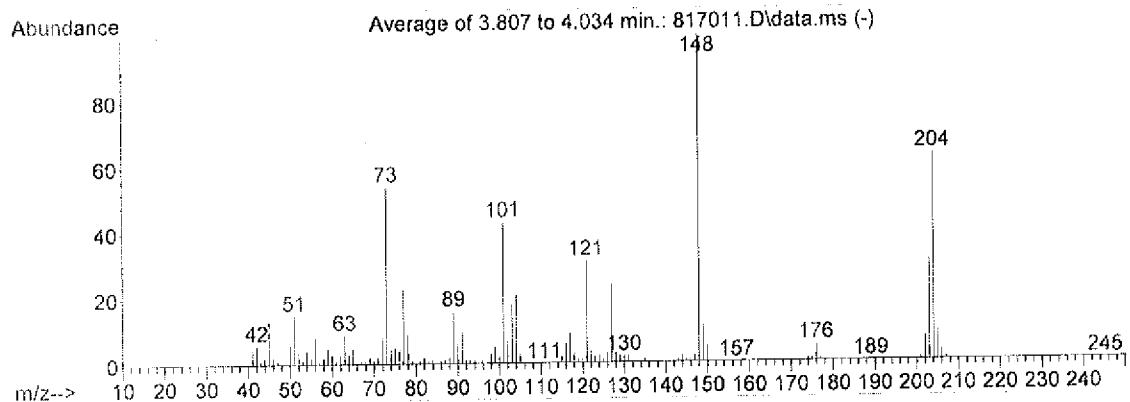
Area Percent / Library Search Report

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 Sample Name : XXXXXXXXXX  
 Submitted by : HLL  
 Vial Number : 11  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 85  
 C:\Database\NIST05a.L Minimum Quality: 85  
 C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 1   | 3.84 | C:\Database\NIST05a.L               |             |      |
|     |      | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 014769-73-4 | 98   |
|     |      | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 006649-23-6 | 98   |
|     |      | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 006649-23-6 | 98   |



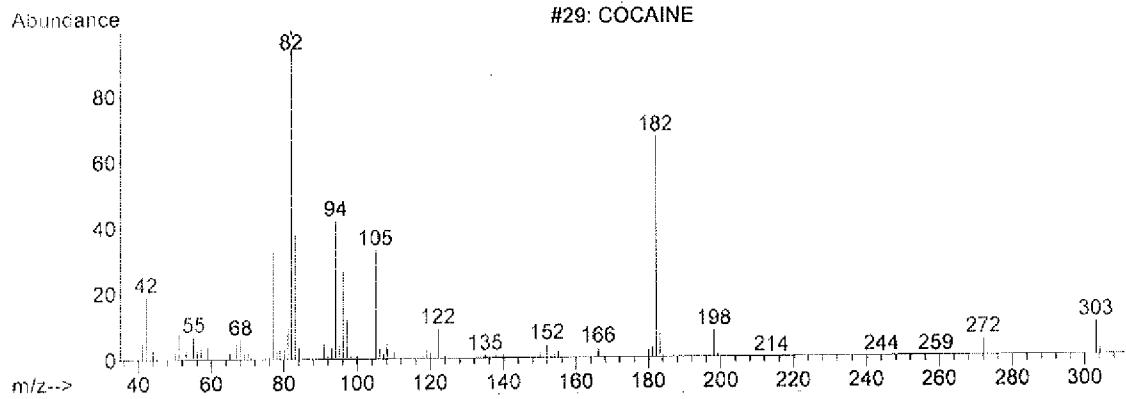
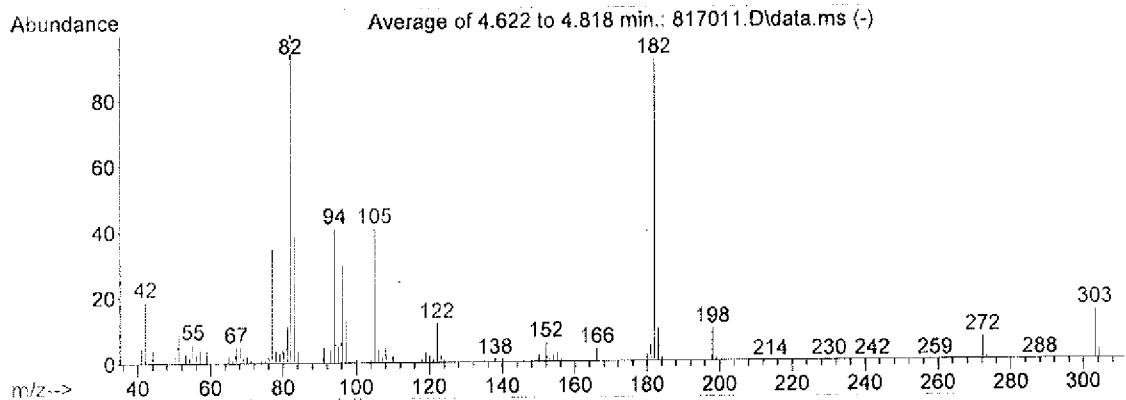
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Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 11  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 85  
C:\Database\NIST05a.L Minimum Quality: 85  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 2   | 4.66 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



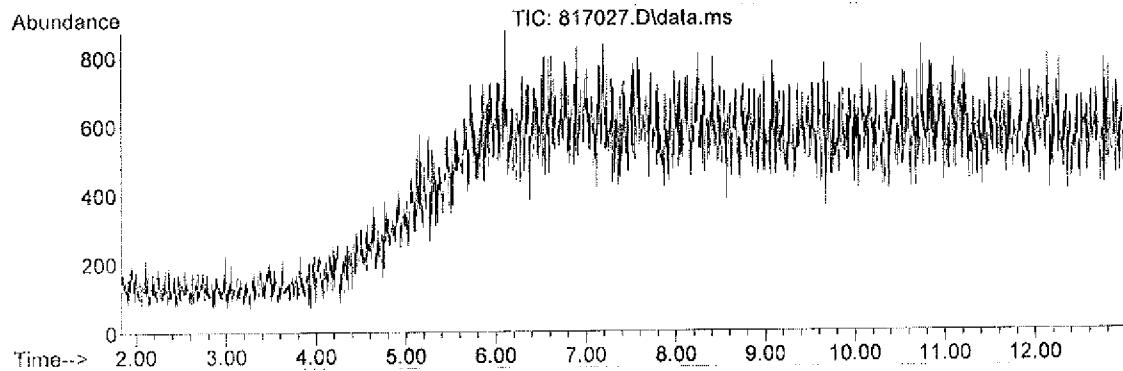
Area Percent / Library Search Report

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Operator : KAC  
Date Acquired : 14 Feb 2012 20:49  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

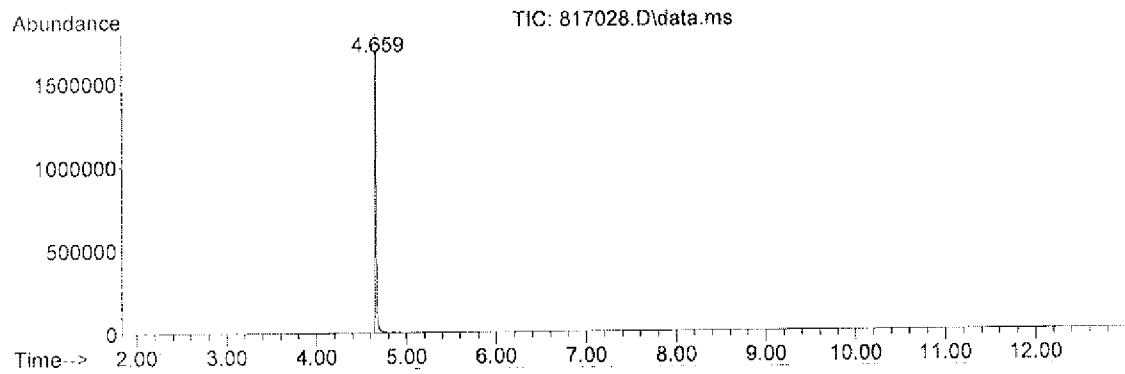
Area Percent / Library Search Report

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Information from Data File:

File Name : C:\msdchem\1\System7\02\_14\_12\817028.D  
Operator : KAC  
Date Acquired : 14 Feb 2012 21:05  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 28  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.659     | 1771642 | 100.00 | 100.00  |

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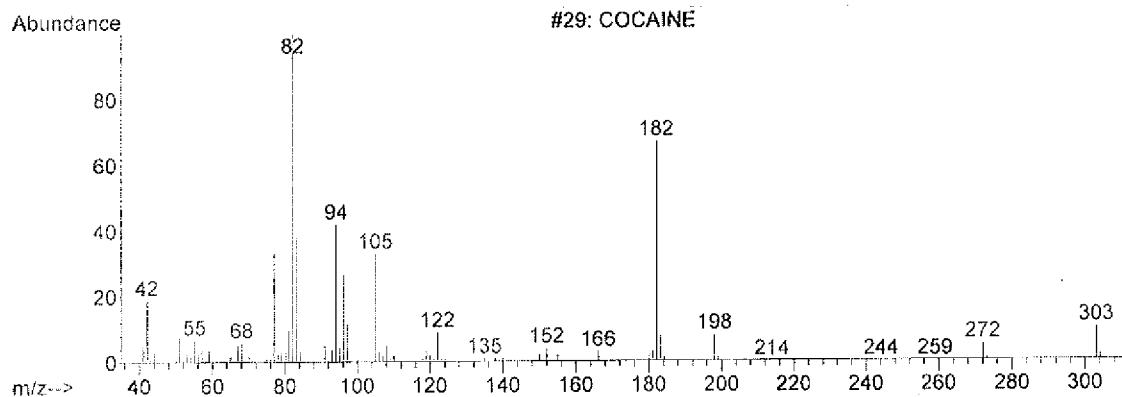
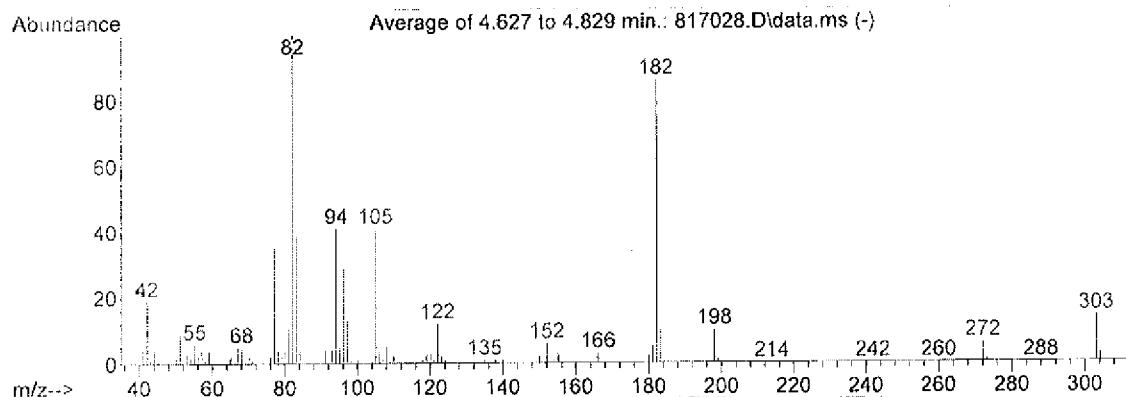
# Area Percent / Library Search Report

**Information from Data File:**

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Operator : KAC  
Date Acquired : 14 Feb 2012 21:05  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 28  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 85  
C:\Database\NIST05a.L Minimum Quality: 85  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.66 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



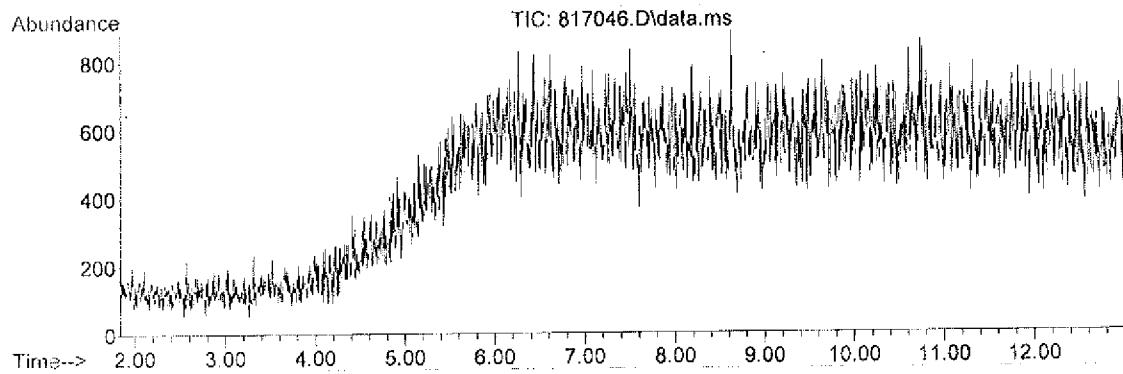
Area Percent / Library Search Report

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Information from Data File:

File Name : C:\msdchem\1\System7\02\_14\_12\817046.D  
Operator : KAC  
Date Acquired : 15 Feb 2012 1:43  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

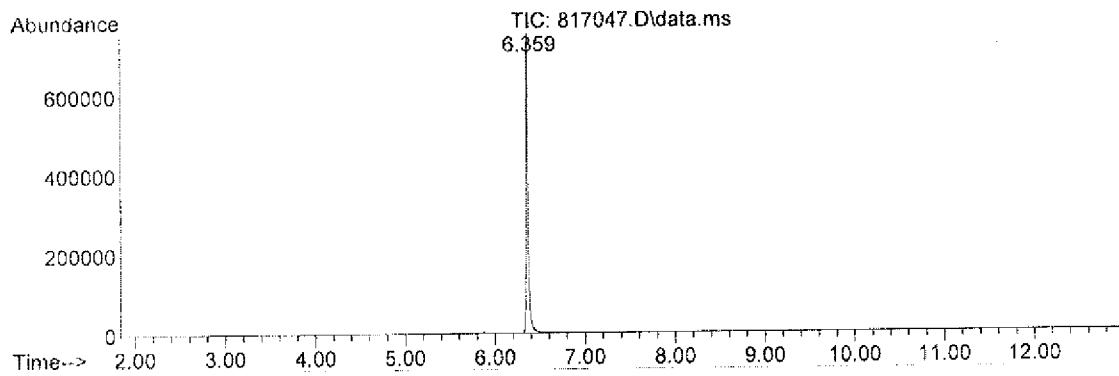
# Area Percent / Library Search Report

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**Information from Data File:**

File Name : C:\msdchem\1\System7\02\_14\_12\817047.D  
Operator : KAC  
Date Acquired : 15 Feb 2012 1:59  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 47  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 6.359     | 1142156 | 100.00 | 100.00  |

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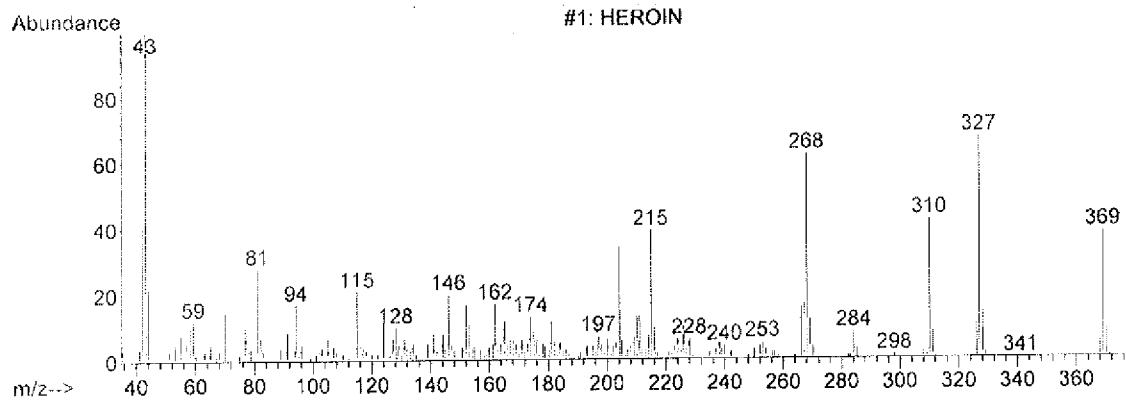
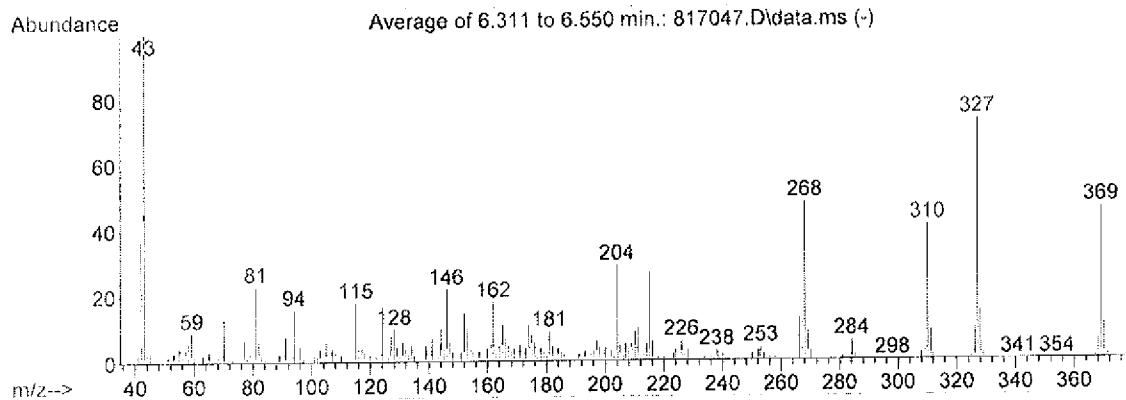
Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\02\_14\_12\817047.D  
 Operator : KAC  
 Date Acquired : 15 Feb 2012 1:59  
 Sample Name : HEROIN STD  
 Submitted by :  
 Vial Number : 47  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 85  
                   C:\Database\NIST05a.L Minimum Quality: 85  
                   C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                  | CAS#        | Qual |
|-----|------|-----------------------------|-------------|------|
| 1   | 6.36 | C:\Database\SLI.L<br>HEROIN | 000561-27-3 | 99   |



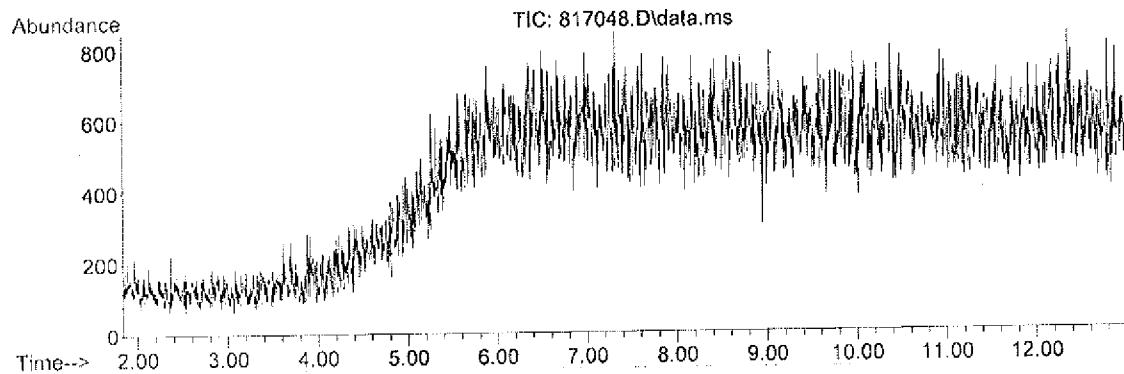
# Area Percent / Library Search Report

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**Information from Data File:**

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Operator : KAC  
Date Acquired : 15 Feb 2012 2:14  
Sample Name : BLANK  
Submitted by : HLL  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

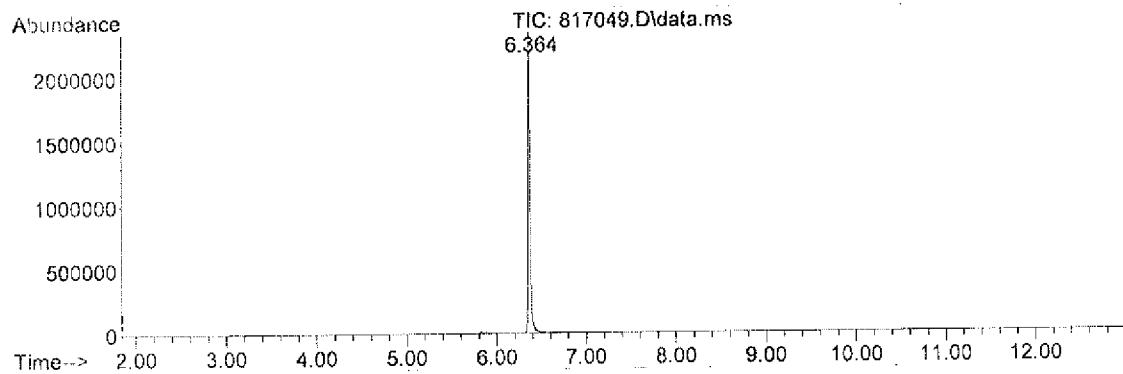
Area Percent / Library Search Report

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Information from Data File:

File Name : C:\msdchem\1\System7\02\_14\_12\817049.D  
Operator : KAC  
Date Acquired : 15 Feb 2012 2:30  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 49  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 6.364     | 3605191 | 100.00 | 100.00  |

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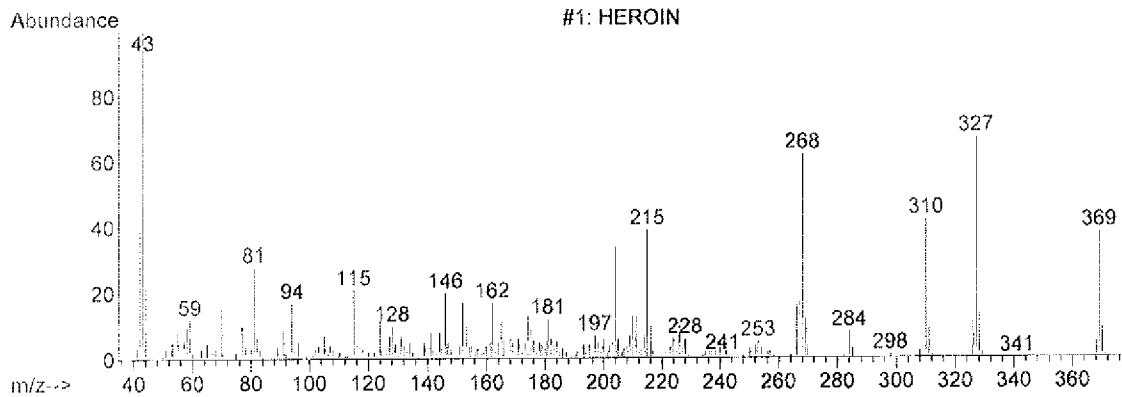
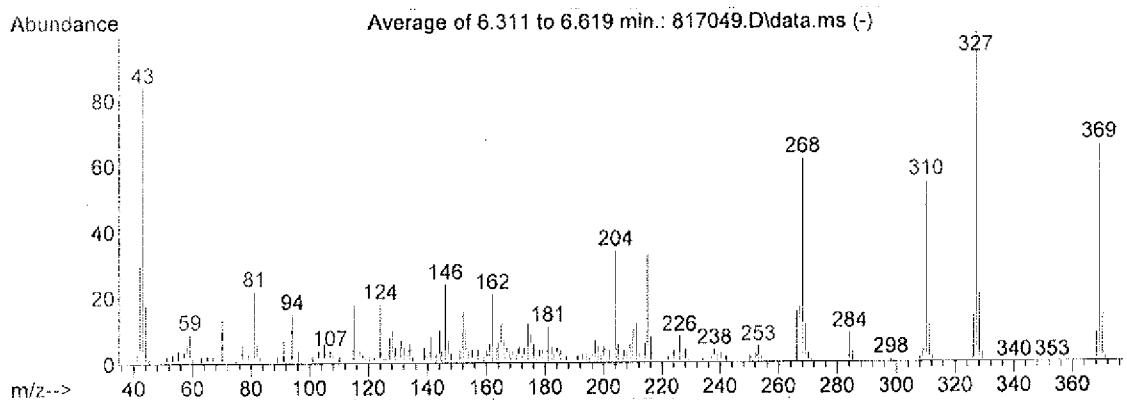
Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\02\_14\_12\817049.D  
Operator : KAC  
Date Acquired : 15 Feb 2012 2:30  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 49  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 85  
C:\Database\NIST05a.L Minimum Quality: 85  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                  | CAS#        | Qual |
|-----|------|-----------------------------|-------------|------|
| 1   | 6.36 | C:\Database\SLI.L<br>HEROIN | 000561-27-3 | 99   |



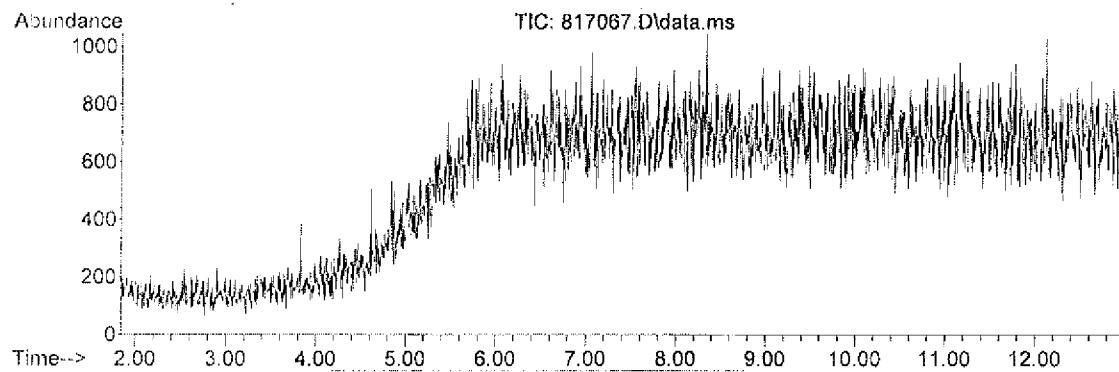
Area Percent / Library Search Report

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Information from Data File:

File Name : C:\msdchem\1\System7\02\_14\_12\817067.D  
Operator : KAC  
Date Acquired : 15 Feb 2012 7:09  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

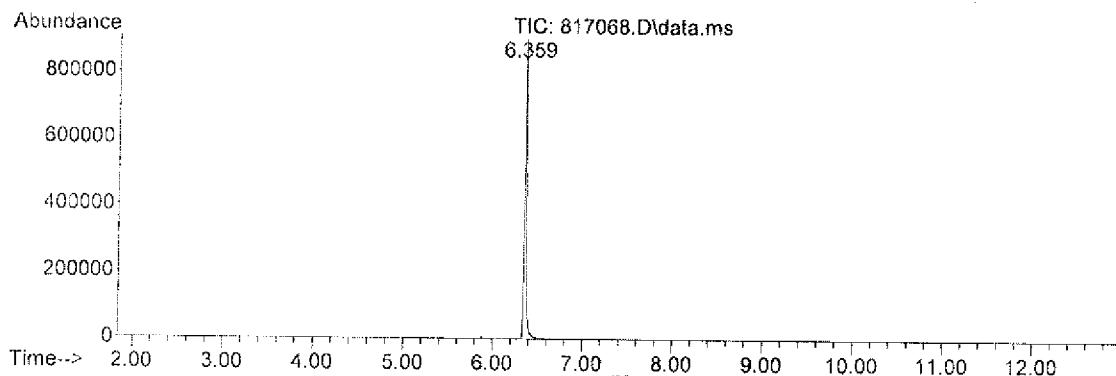
Area Percent / Library Search Report

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Information from Data File:

File Name : C:\msdchem\1\System7\02\_14\_12\817068.D  
Operator : KAC  
Date Acquired : 15 Feb 2012 7:25  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 68  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 6.359     | 1332059 | 100.00 | 100.00  |

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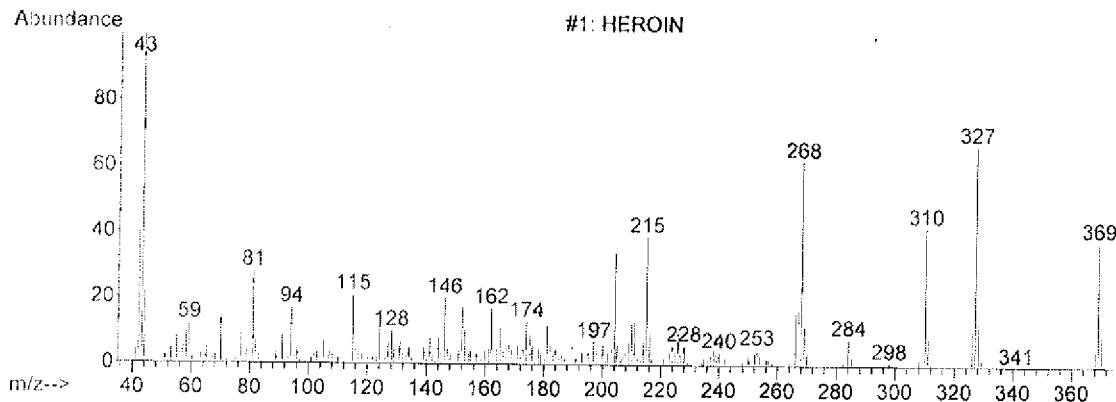
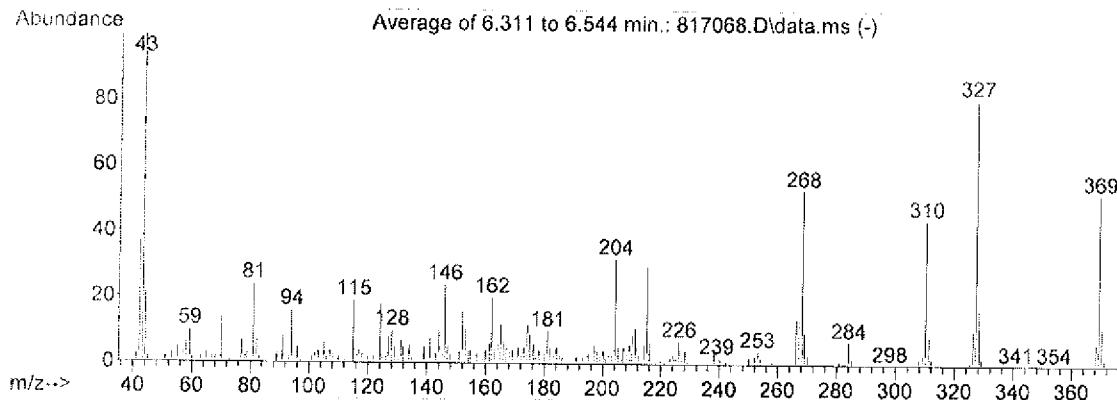
## Area Percent / Library Search Report

## Information from Data File:

File Name : C:\msdchem\1\System7\02\_14\_12\817068.D  
Operator : KAC  
Date Acquired : 15 Feb 2012 7:25  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 68  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 85  
C:\Database\NIST05a.L Minimum Quality: 85  
C:\Database\PMW\_TOX2.L

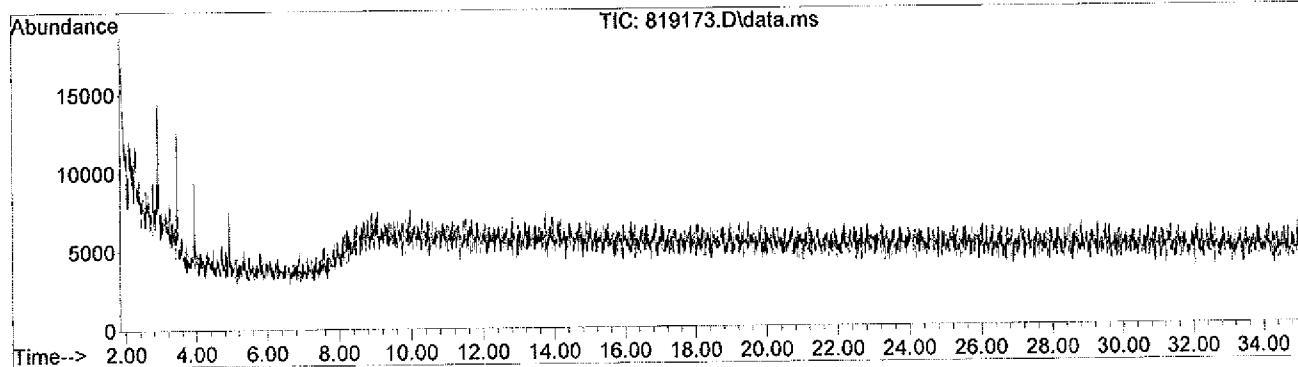
| PK# | RT   | Library/ID                  | CAS#        | Qual |
|-----|------|-----------------------------|-------------|------|
| 1   | 6.36 | C:\Database\SLI.L<br>HEROIN | 000561-27-3 | 99   |



✓KAC  
3/6/12

## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819173.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 11:23  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

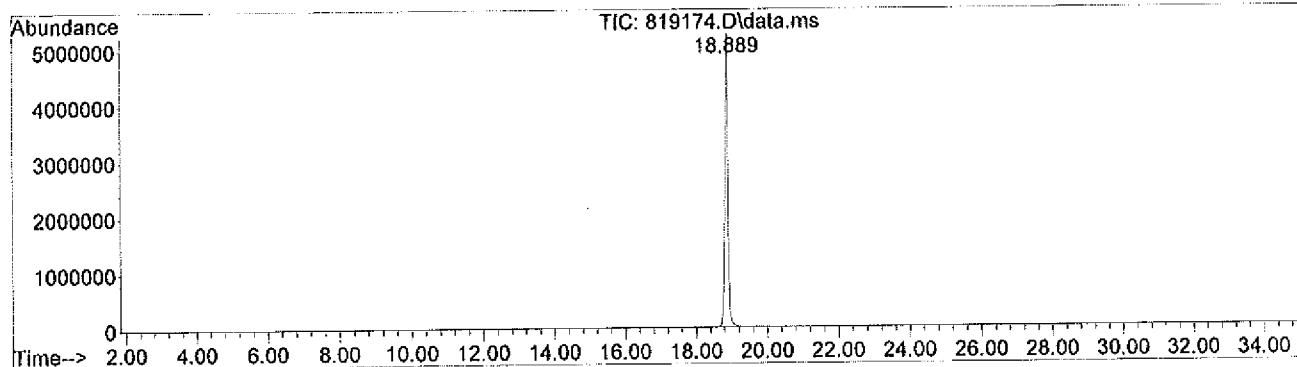
Area Percent / Library Search Report

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Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819174.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 12:02  
Sample Name : BUPRENORPHINE STD  
Submitted by :  
Vial Number : 74  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

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| Ret. Time | Area     | Area % | Ratio % |
|-----------|----------|--------|---------|
| 18.889    | 29575046 | 100.00 | 100.00  |

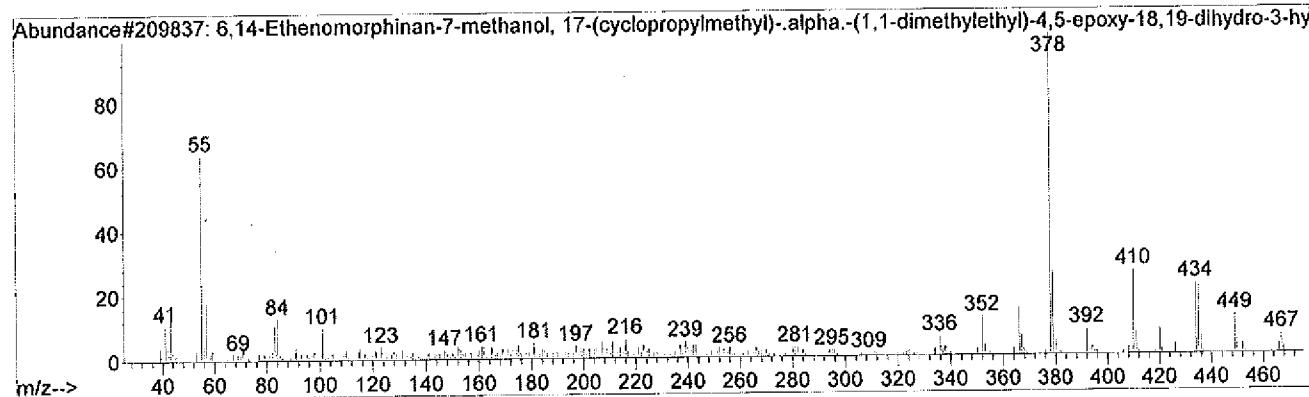
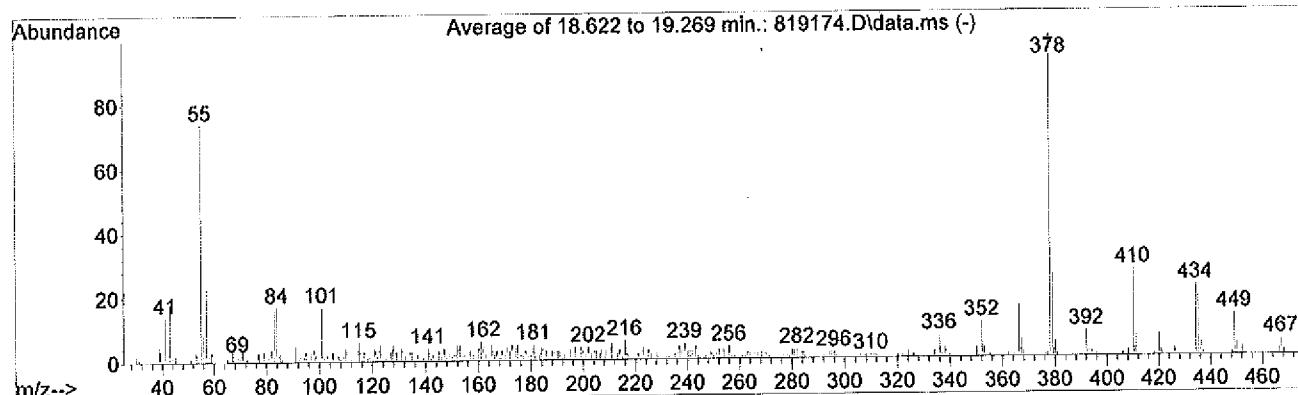
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## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819174.D  
 Operator : KAC  
 Date Acquired : 28 Feb 2012 12:02  
 Sample Name : BUPRENORPHINE STD  
 Submitted by :  
 Vial Number : 74  
 AcquisitionMeth: WSCREEN.M  
 Integrator : RTE

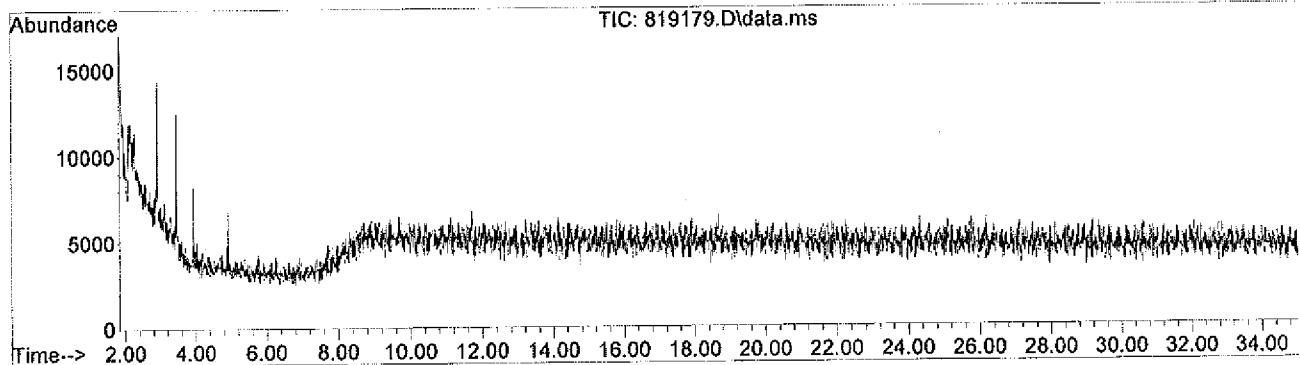
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST08.L Minimum Quality: 10  
 C:\Database\PMW\_TOX2.L

| PK# | RT    | Library/ID                          | CAS#        | Qual |
|-----|-------|-------------------------------------|-------------|------|
| 1   | 18.89 | C:\Database\NIST08.L                |             |      |
|     |       | 6,14-Ethenomorphinan-7-methanol, 17 | 052485-79-7 | 99   |
|     |       | 6,14-Ethenomorphinan-7-methanol, 17 | 052485-79-7 | 99   |
|     |       | 6,14-Ethenomorphinan-7-methanol, 17 | 052485-79-7 | 96   |



## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819179.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:15  
Sample Name : BLANK  
Submitted by : HLL  
Vial Number : 2  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

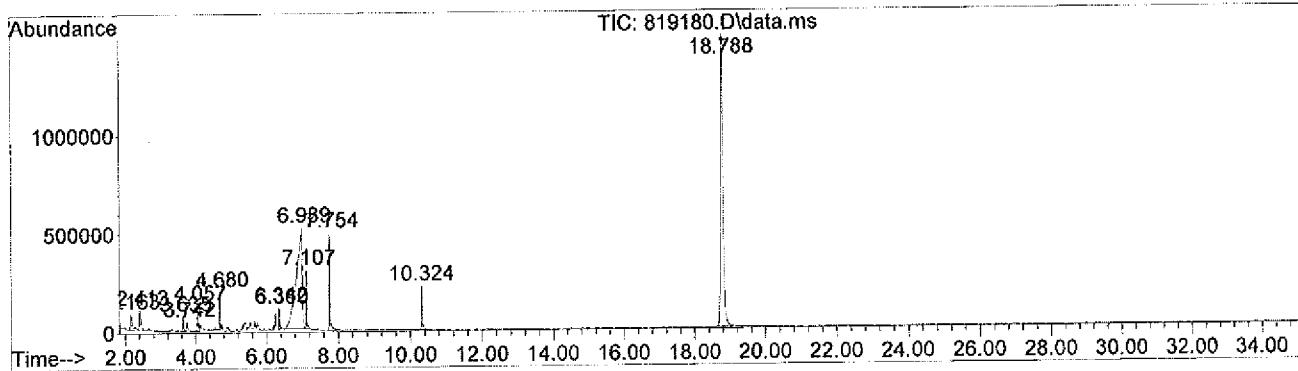


| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:54  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 80  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE



| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 2.163     | 290754  | 1.89   | 4.25    |
| 2.413     | 322554  | 2.10   | 4.72    |
| 3.635     | 129549  | 0.84   | 1.90    |
| 3.742     | 145737  | 0.95   | 2.13    |
| 4.057     | 208340  | 1.35   | 3.05    |
| 4.680     | 205495  | 1.33   | 3.01    |
| 6.342     | 122776  | 0.80   | 1.80    |
| 6.360     | 108880  | 0.71   | 1.59    |
| 6.989     | 5656112 | 36.74  | 82.74   |
| 7.107     | 338620  | 2.20   | 4.95    |
| 7.754     | 649368  | 4.22   | 9.50    |
| 10.324    | 381711  | 2.48   | 5.58    |
| 18.788    | 6835731 | 44.40  | 100.00  |

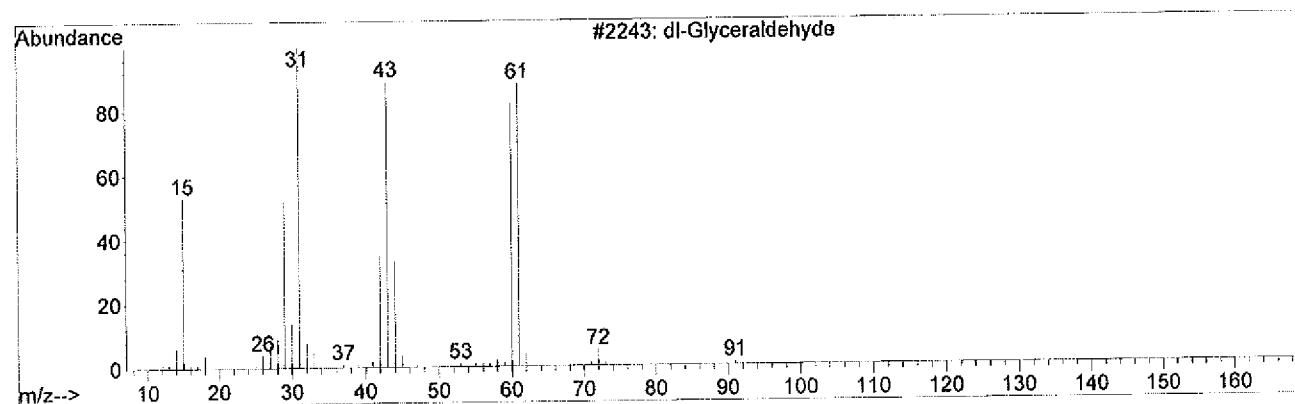
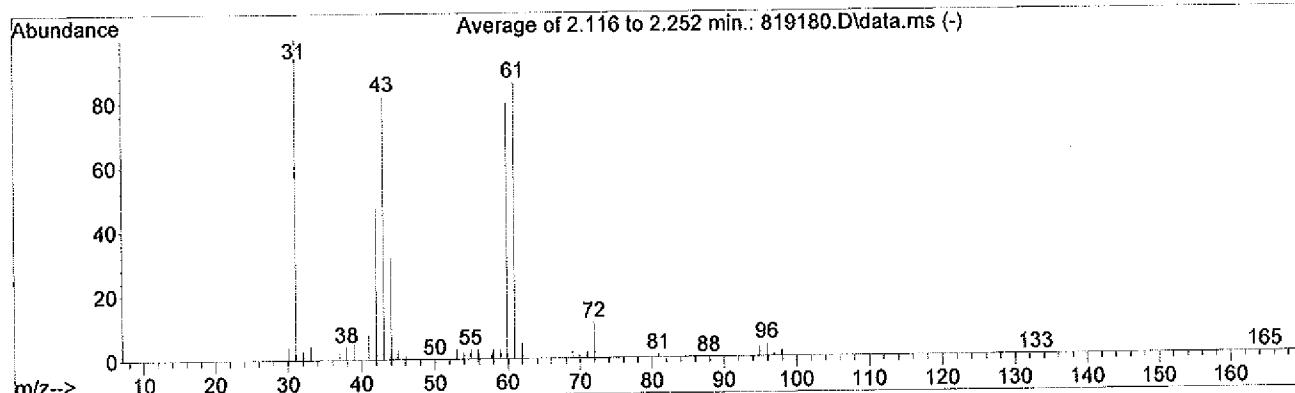
## Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:54  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 80  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 10  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID           | CAS#        | Qual |
|-----|------|----------------------|-------------|------|
| 1   | 2.16 | C:\Database\NIST08.L |             |      |
|     |      | dl-Glyceraldehyde    | 000056-82-6 | 83   |
|     |      | DL-Xylose            | 041247-05-6 | 45   |
|     |      | Diglycolic acid      | 000110-99-6 | 40   |

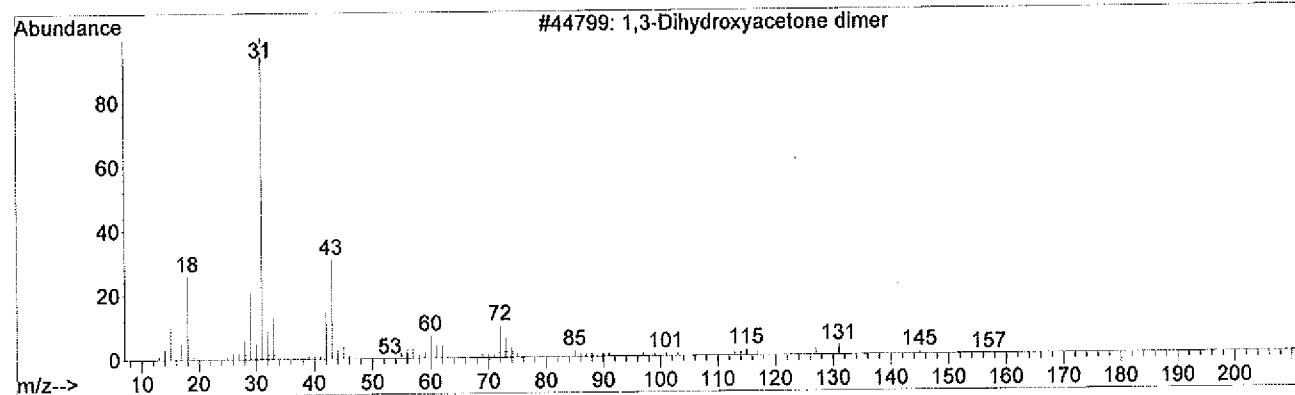
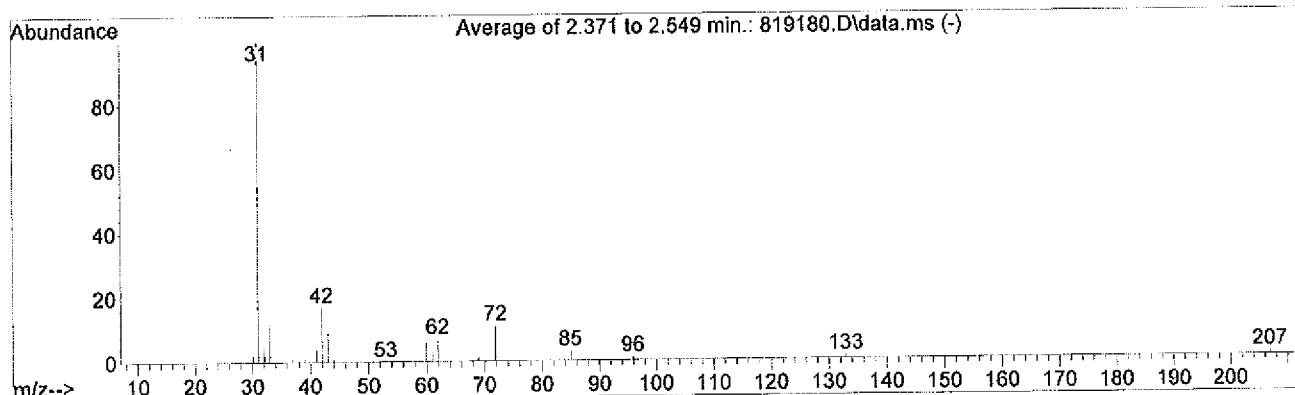


## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:54  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 80  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 10  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                  | CAS#        | Qual |
|-----|------|-----------------------------|-------------|------|
| 2   | 2.41 | C:\Database\NIST08.L        |             |      |
|     |      | 1,3-Dihydroxyacetone dimer  | 062147-49-3 | 64   |
|     |      | 2-Propanone, 1,3-dihydroxy- | 000096-26-4 | 64   |
|     |      | dl-Glyceraldehyde dimer     | 026793-98-6 | 40   |

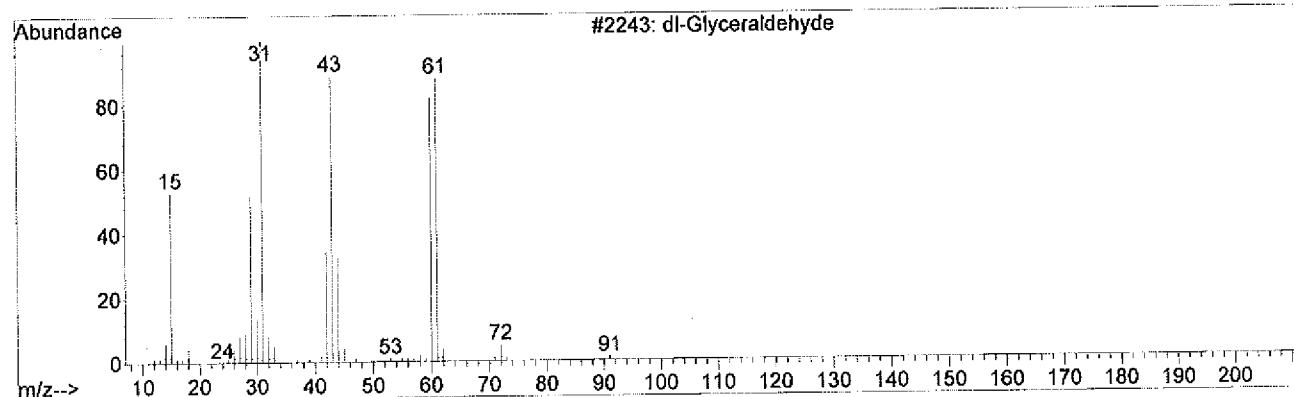
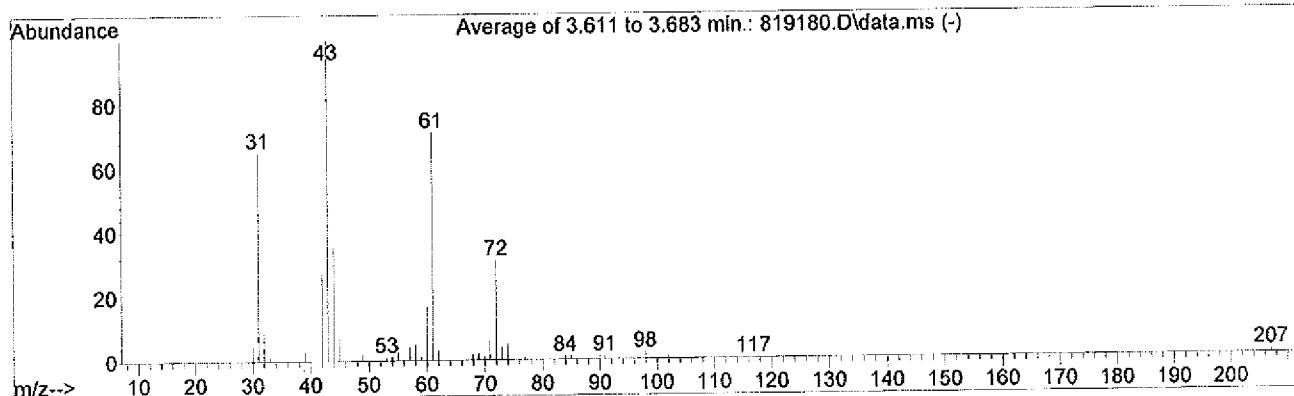


## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:54  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 80  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 10  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 3   | 3.64 | C:\Database\NIST08.L                |             |      |
|     |      | dl-Glyceraldehyde                   | 000056-82-6 | 38   |
|     |      | 3-Methoxy-2,2-dimethyloxirane       | 026196-04-3 | 35   |
|     |      | 4-Amino-furazan-3-carboxylic acid ( | 347355-79-7 | 33   |

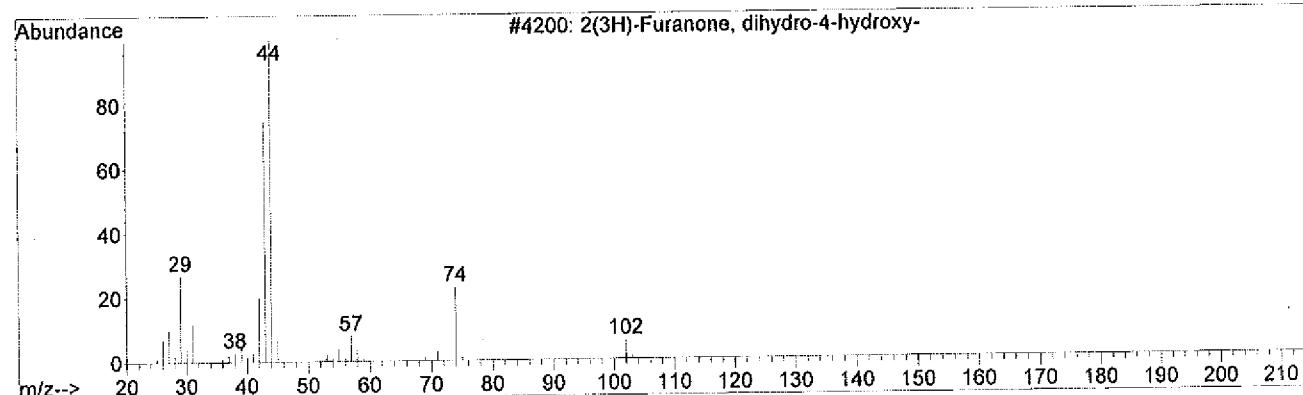
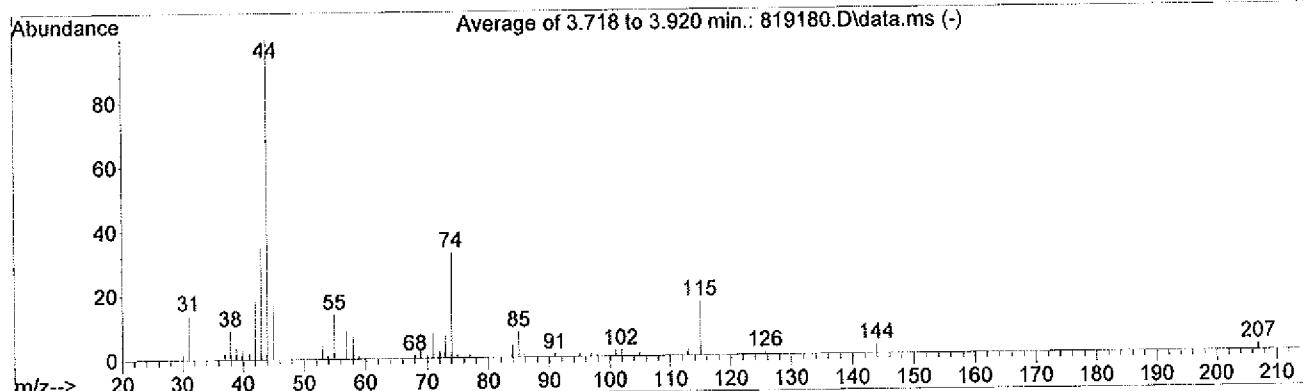


## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:54  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 80  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 10  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 4   | 3.74 | C:\Database\NIST08.L                |             |      |
|     |      | 2 (3H)-Furanone, dihydro-4-hydroxy- | 005469-16-9 | 64   |
|     |      | Pentanal                            | 000110-62-3 | 47   |
|     |      | Cyclopropyl carbinol                | 002516-33-8 | 40   |

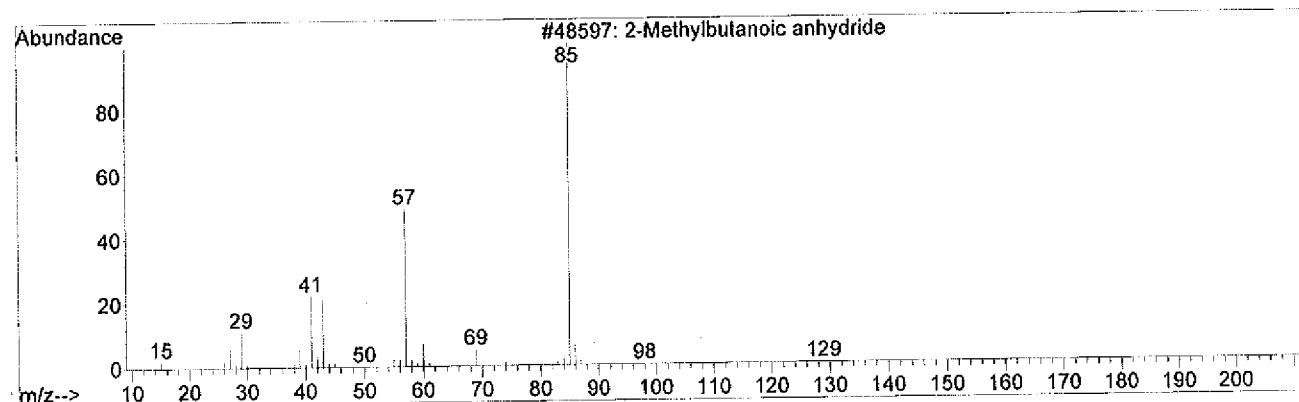
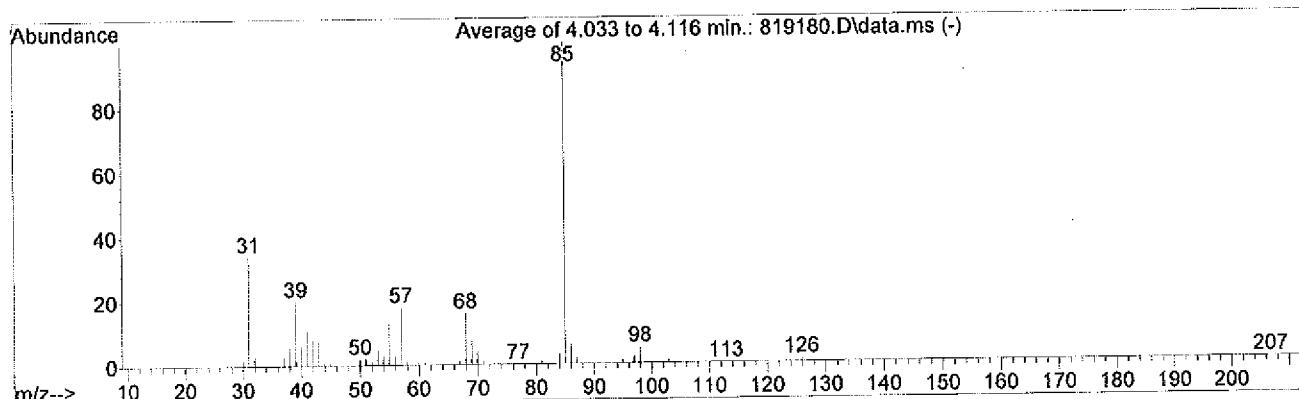


## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:54  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 80  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 10  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                         | CAS#         | Qual |
|-----|------|------------------------------------|--------------|------|
| 5   | 4.06 | C:\Database\NIST08.L               |              |      |
|     |      | 2-Methylbutanoic anhydride         | 001468-39-9  | 53   |
|     |      | Hexan-2,4-dione, enol              | 1000202-23-9 | 50   |
|     |      | 1-Bromo-7-(tetrahydro-2-pyranloxy) | 010160-25-5  | 39   |

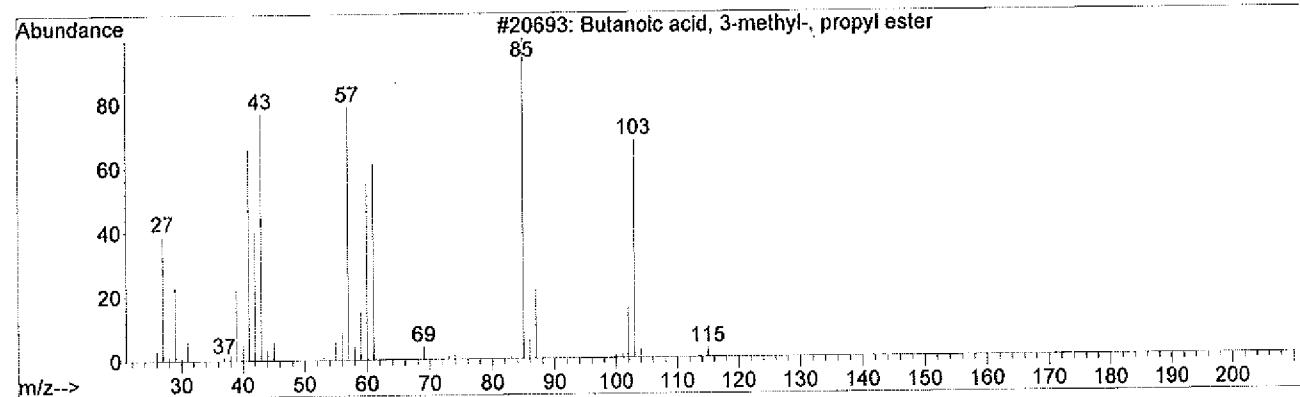
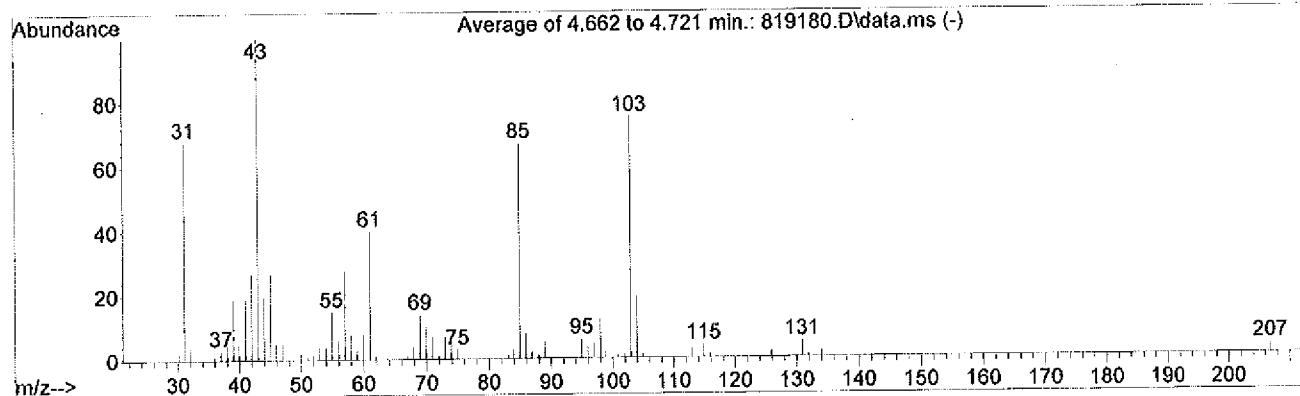


## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:54  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 80  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 10  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 6   | 4.68 | C:\Database\NIST08.L                |             |      |
|     |      | Butanoic acid, 3-methyl-, propyl es | 000557-00-6 | 47   |
|     |      | Butanoic acid, 3-methyl-, propyl es | 000557-00-6 | 38   |
|     |      | Butanedioic acid, 2-hydroxy-2-methy | 006236-09-5 | 32   |

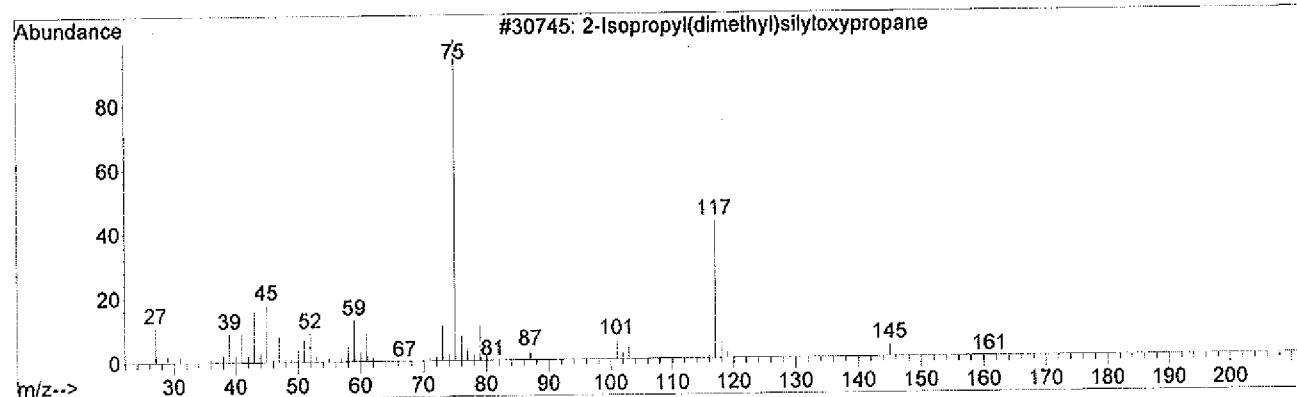
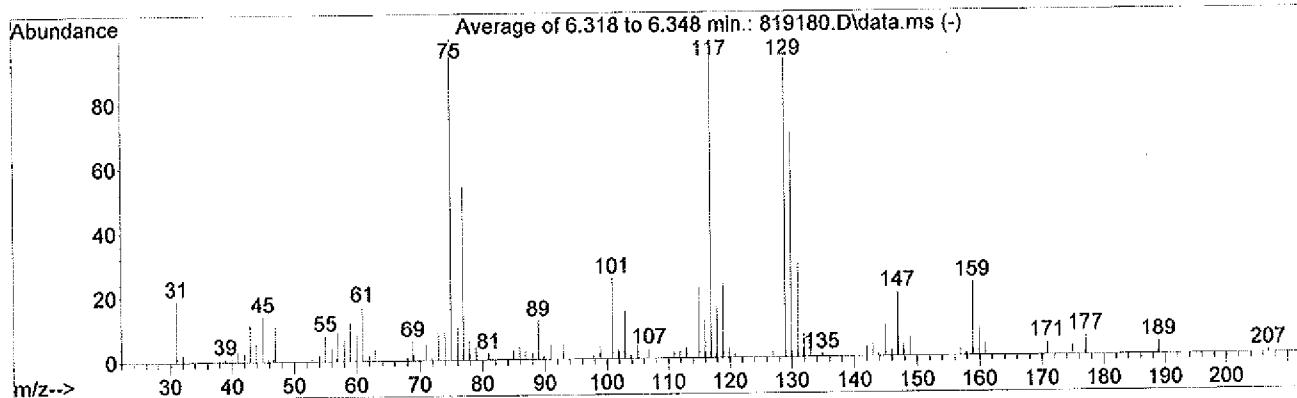


## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
 Operator : KAC  
 Date Acquired : 28 Feb 2012 15:54  
 Sample Name : XXXXXXXXXX  
 Submitted by : HLL  
 Vial Number : 80  
 AcquisitionMeth: WSCREEN.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST08.L Minimum Quality: 10  
 C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#         | Qual |
|-----|------|-------------------------------------|--------------|------|
| 7   | 6.34 | C:\Database\NIST08.L                |              |      |
|     |      | 2-Isopropyl(dimethyl)silyloxypropan | 1000278-74-1 | 27   |
|     |      | Heptane, 1,1-dimethoxy-             | 010032-05-0  | 27   |
|     |      | .beta.-Alanine, trimethylsilyl este | 005269-40-9  | 22   |

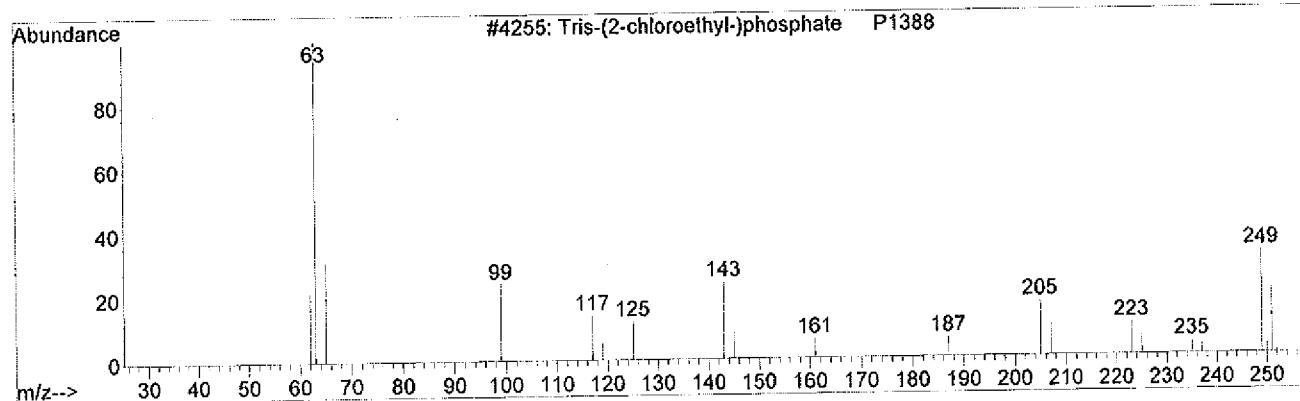
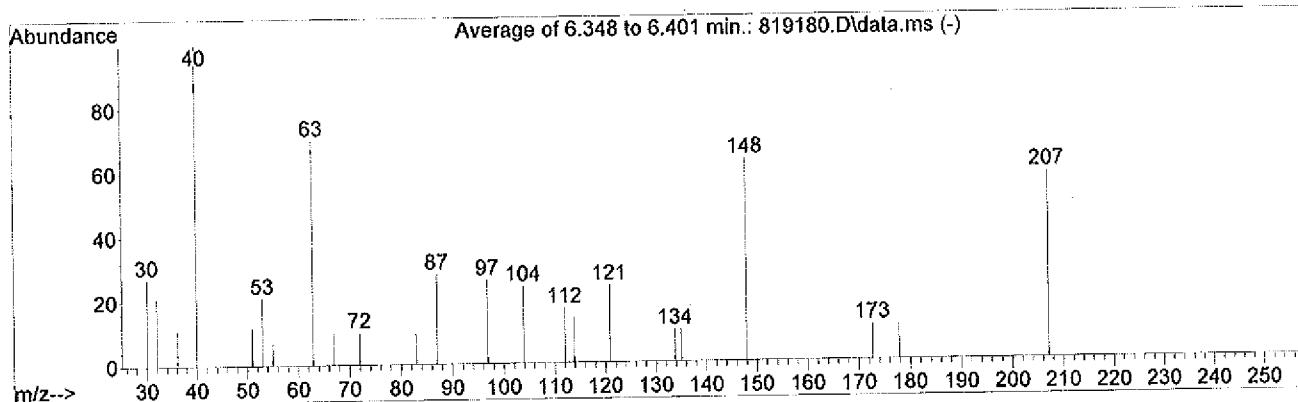


## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:54  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 80  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 10  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                     | CAS#        | Qual |
|-----|------|--------------------------------|-------------|------|
| 8   | 6.36 | C:\Database\PMW_TOX2.L         |             |      |
|     |      | Tris-(2-chloroethyl)-phosphate | 000115-96-8 | 1    |
|     |      | Dimethylsulfoxide              | 000067-68-5 | 1    |

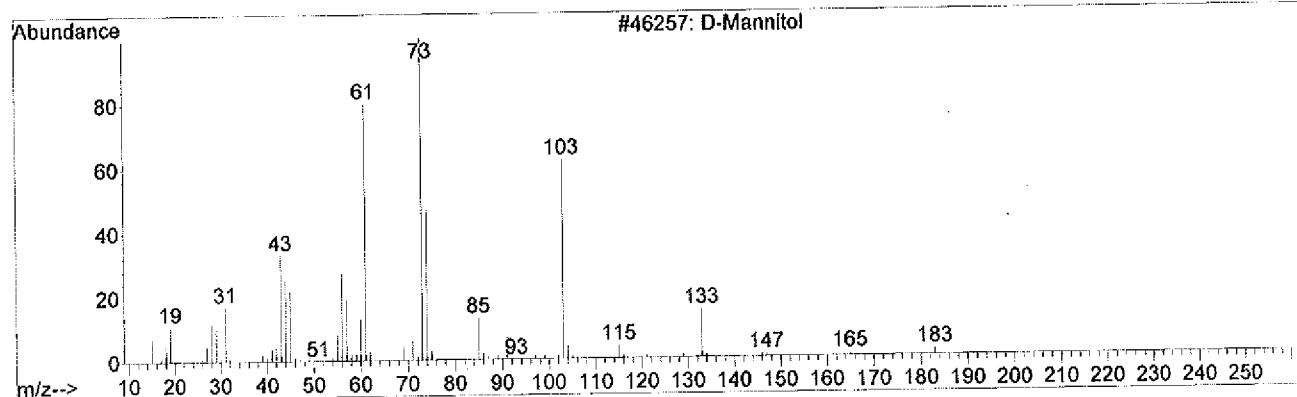
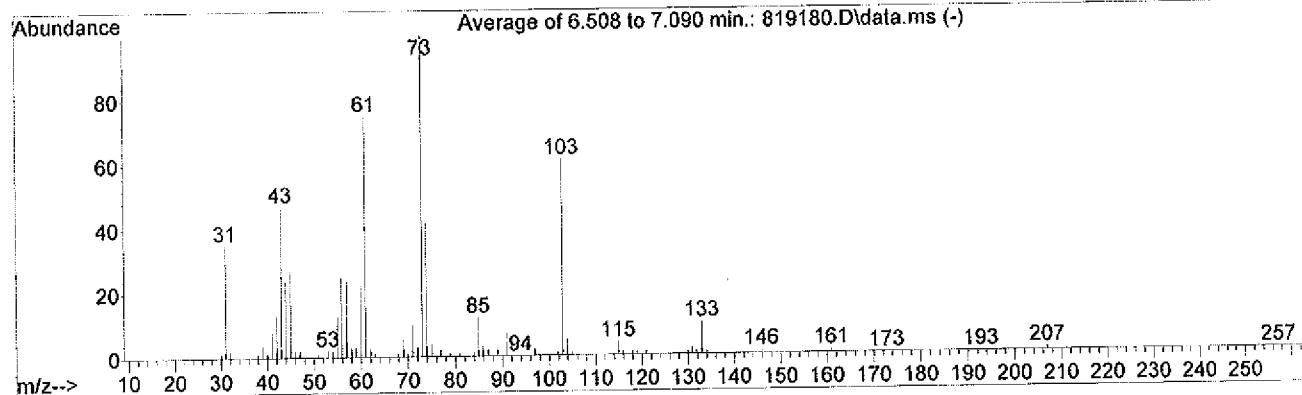


## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:54  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 80  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 10  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID           | CAS#        | Qual |
|-----|------|----------------------|-------------|------|
| 9   | 6.99 | C:\Database\NIST08.L |             |      |
|     |      | D-Mannitol           | 000069-65-8 | 91   |
|     |      | Sorbitol             | 000050-70-4 | 90   |
|     |      | Galactitol           | 000608-66-2 | 87   |



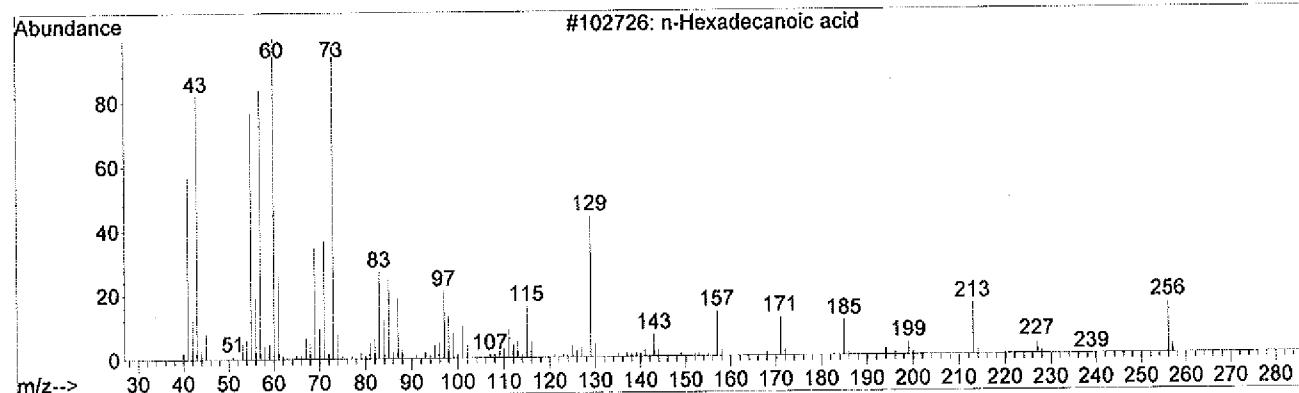
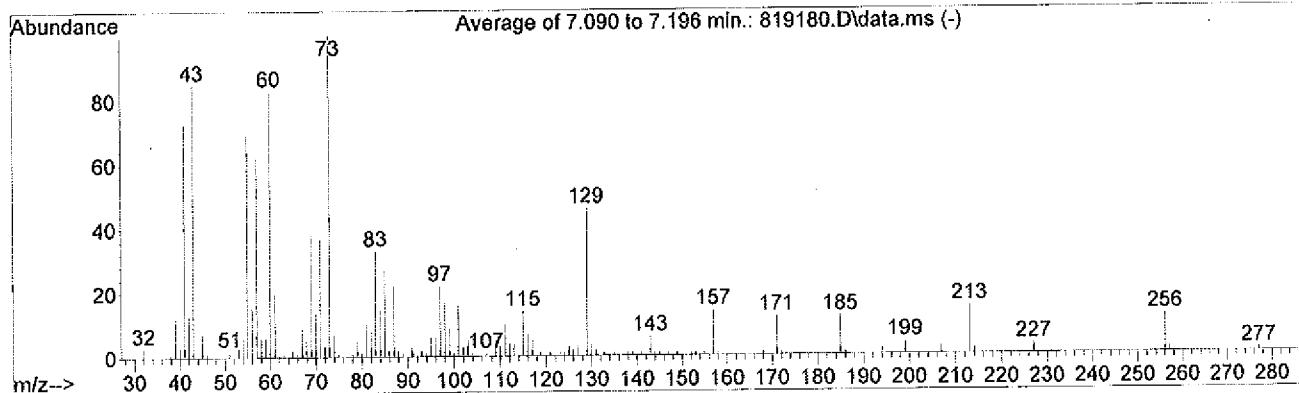
## Area Percent / Library Search Report

## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:54  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 80  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 10  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID           | CAS#        | Qual |
|-----|------|----------------------|-------------|------|
| 10  | 7.11 | C:\Database\NIST08.L |             |      |
|     |      | n-Hexadecanoic acid  | 000057-10-3 | 97   |
|     |      | n-Hexadecanoic acid  | 000057-10-3 | 95   |
|     |      | Pentadecanoic acid   | 001002-84-2 | 87   |



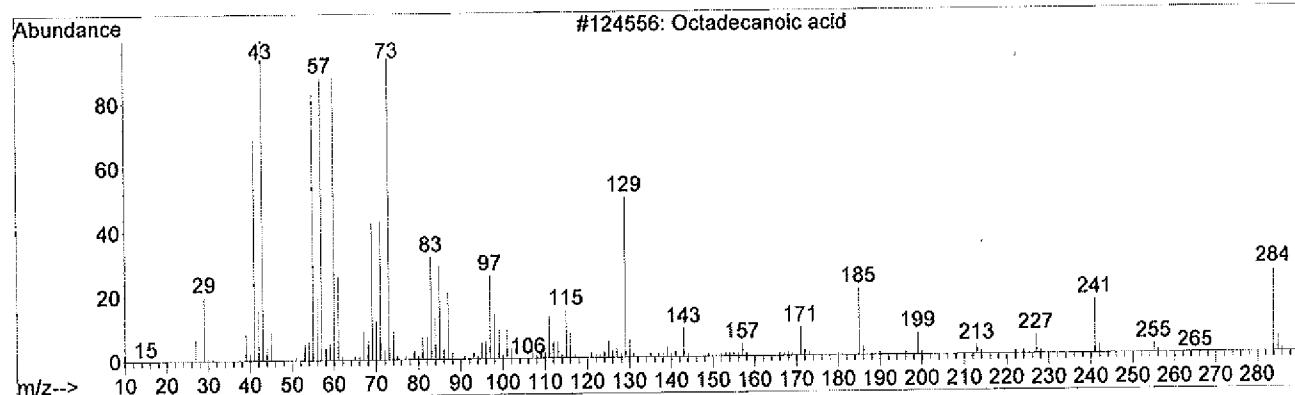
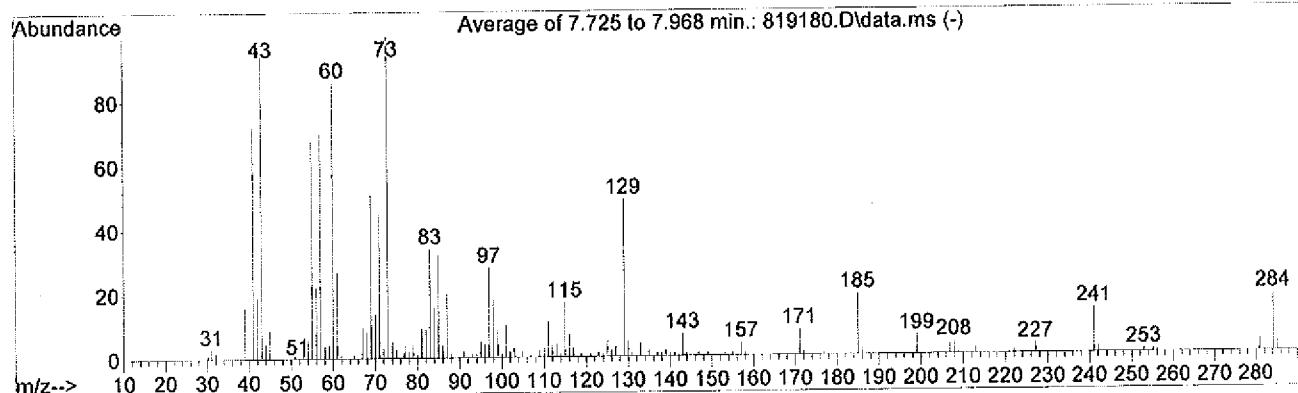
## Area Percent / Library Search Report

## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:54  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 80  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 10  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID           | CAS#        | Qual |
|-----|------|----------------------|-------------|------|
| 11  | 7.75 | C:\Database\NIST08.L |             |      |
|     |      | Octadecanoic acid    | 000057-11-4 | 99   |
|     |      | Octadecanoic acid    | 000057-11-4 | 96   |
|     |      | Octadecanoic acid    | 000057-11-4 | 95   |

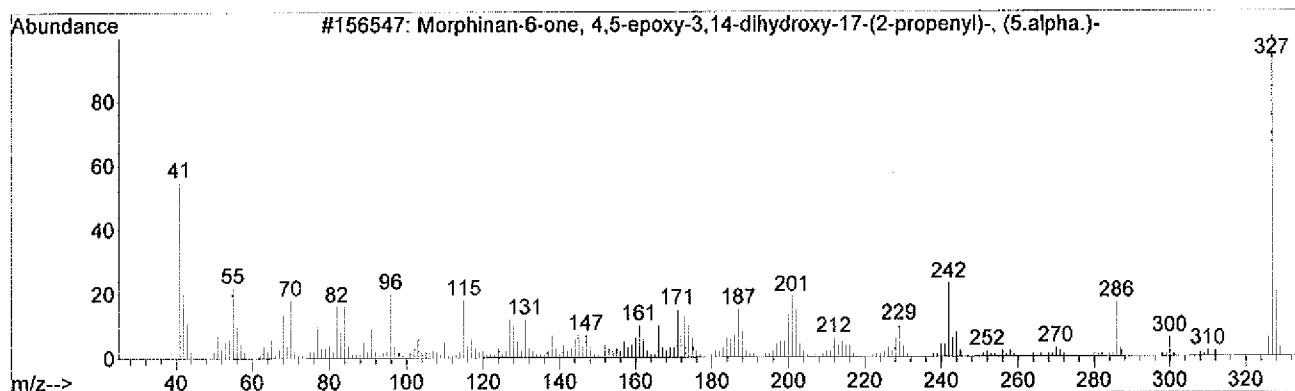
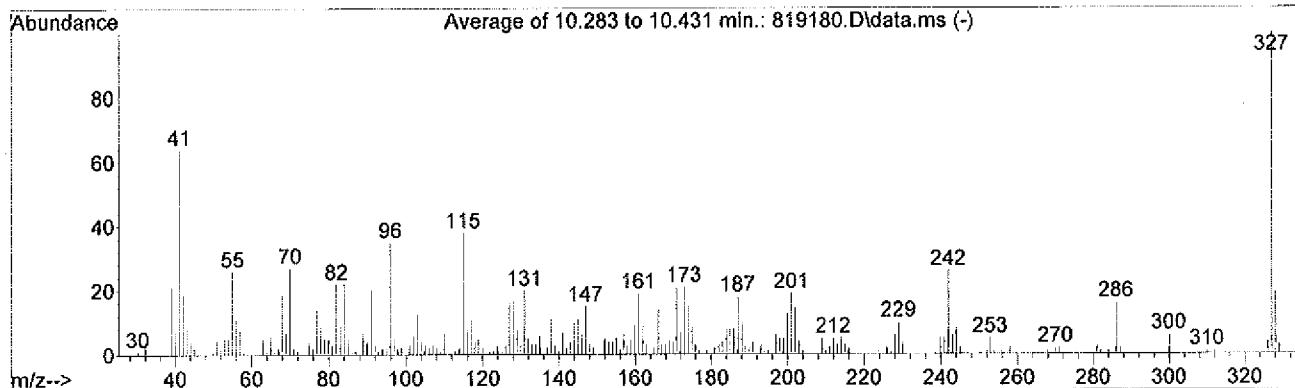


## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:54  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 80  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 10  
C:\Database\PMW\_TOX2.L

| PK# | RT    | Library/ID                          | CAS#        | Qual |
|-----|-------|-------------------------------------|-------------|------|
| 12  | 10.32 | C:\Database\NIST08.L                |             |      |
|     |       | Morphinan-6-one, 4,5-epoxy-3,14-dih | 000465-65-6 | 99   |
|     |       | Morphinan-6-one, 4,5-epoxy-3,14-dih | 000465-65-6 | 96   |
|     |       | Morphinan-6-one, 4,5-epoxy-3,14-dih | 000465-65-6 | 70   |

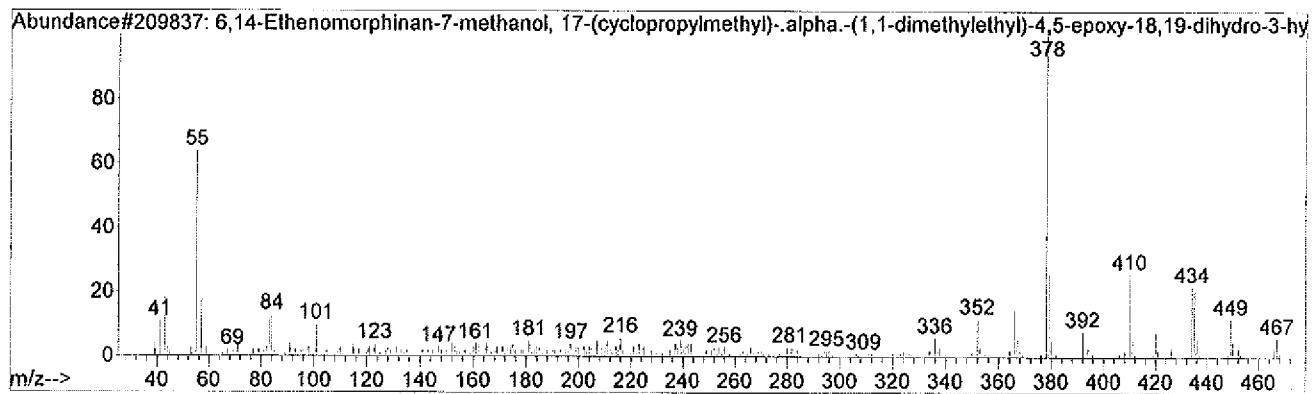
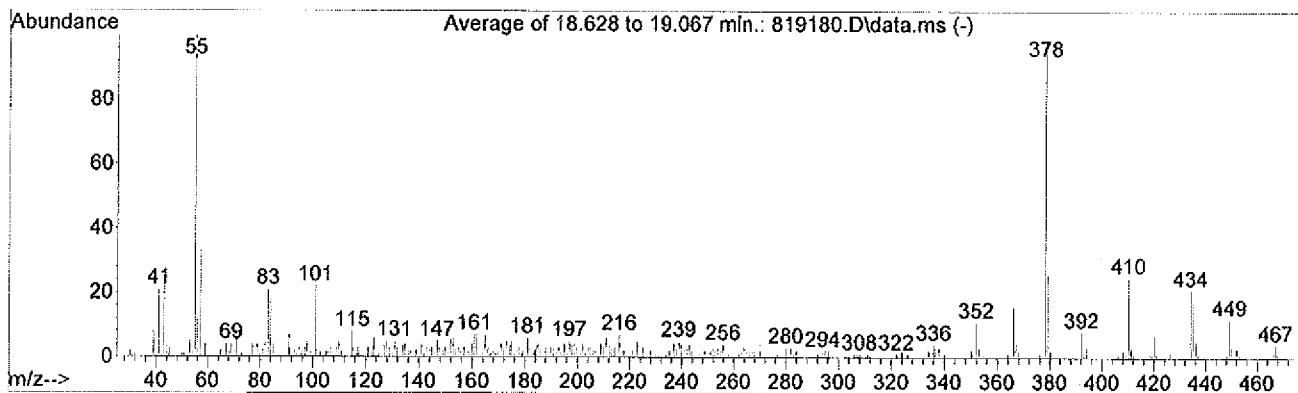


## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819180.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 15:54  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 80  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

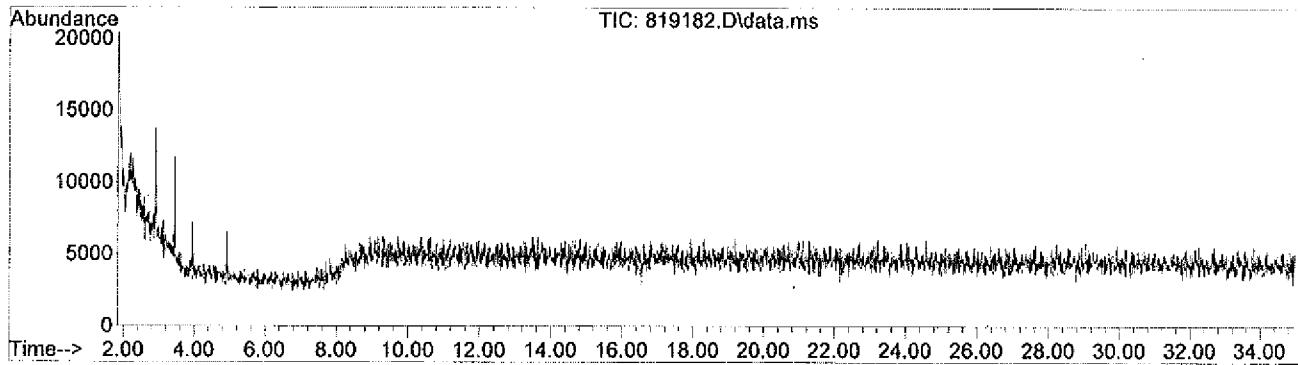
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 10  
C:\Database\PMW\_TOX2.L

| PK# | RT    | Library/ID                       | CAS#           | Qual |
|-----|-------|----------------------------------|----------------|------|
| 13  | 18.79 | C:\Database\NIST08.L             |                |      |
|     |       | 6,14-Ethenomorphinan-7-methanol, | 17 052485-79-7 | 99   |
|     |       | 6,14-Ethenomorphinan-7-methanol, | 17 052485-79-7 | 99   |
|     |       | 6,14-Ethenomorphinan-7-methanol, | 17 052485-79-7 | 95   |



## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819182.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 17:11  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE



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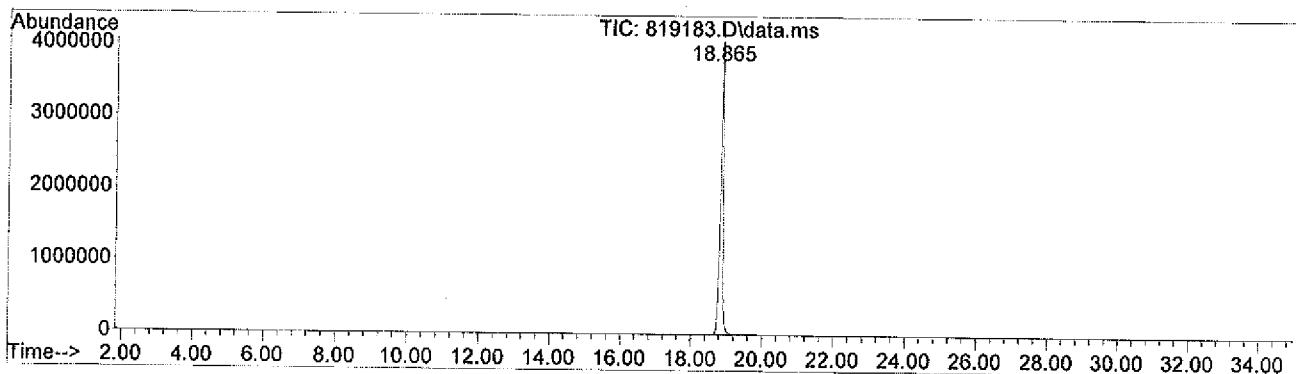
| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819183.D  
Operator : KAC  
Date Acquired : 28 Feb 2012 17:50  
Sample Name : BUPRENORPHINE STD  
Submitted by :  
Vial Number : 74  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE



| Ret. Time | Area     | Area % | Ratio % |
|-----------|----------|--------|---------|
| 18.865    | 20884528 | 100.00 | 100.00  |

## Information from Data File:

File Name : C:\msdchem\1\DATA\SYSTEM9\02\_27\_12\819183.D  
 Operator : KAC  
 Date Acquired : 28 Feb 2012 17:50  
 Sample Name : BUPRENORPHINE STD  
 Submitted by :  
 Vial Number : 74  
 AcquisitionMeth: WSCREEN.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST08.L Minimum Quality: 10  
 C:\Database\PMW\_TOX2.L

| PK# | RT    | Library/ID                          | CAS#        | Qual |
|-----|-------|-------------------------------------|-------------|------|
| 1   | 18.87 | C:\Database\NIST08.L                |             |      |
|     |       | 6,14-Ethenomorphinan-7-methanol, 17 | 052485-79-7 | 99   |
|     |       | 6,14-Ethenomorphinan-7-methanol, 17 | 052485-79-7 | 99   |
|     |       | 6,14-Ethenomorphinan-7-methanol, 17 | 052485-79-7 | 96   |

